



June 1993



Ethel Smith, K4LMB

**FCC Highlights \* ARRL Report \* VE Exams Schedule \* Public Service Report  
DX Column \* Elmer's Corner \* Club Reports \* Want Ads \* Much More**

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**Auto-Call is the Official Journal of the Foundation For Amateur Radio, Inc.®**

**\$1.00**



## THE NEW GENERATION ROTATORS

### THEY'RE NOT YOUR FATHER'S HAM "M"

Rotator Comparison Chart

	The New Generation									Old Generation	
Model/ Specs	Create RC5	Create RC5A	Create RC5B	Emoto 105TSX	Emoto 747SRX	Emoto 1105MSX	Emoto 1200Fix	Emoto 1300MSAX	Emoto 1800FSX	Tmax Ham/V	Tmax T2X
Rotate Torque F/s	43	116	160	37	50	57	143	215	287	67	83
GD <sup>2</sup> KgM <sup>2</sup> Ant Inertia	N/A	N/A	N/A	100	400	700	1000	1800	3000	N/A	N/A
Bk. Static Torque F/s	506	1085	1450	215	502	717	1290	1792	2150	417	750
Wind Load in Tower (lb)	10	25	25	11	22	27	27	33	36	15	20
Mast mount	4	5	7	5	9	12	12	15	16	7.5	10
Rotating speed 360°	60-150 sec variable	60-150 sec variable	60-150 sec variable	55	35	65	40	77	80	60	60
Rev. Delay	None	2 sec	3 sec							None	None
Preset	Opt 3	Opt 3	yes	no	no	Opt	yes	yes	yes	no	no
Computer	no	no	no	no	yes	yes	yes	yes	yes	no	no
Power 20V 60Hz	80VA	140VA	200VA	70VA	70VA	70VA	90VA	120VA	150VA	26V AC	26V AC
Mast Dia	2-2.5 in	2-2.5 in	2-2.5 in	2-2.4 in	1.6-2.4 in	1.6-2.4 in	1.6-2.4 in	2.4-3.1 in	3.5-5.5 in	2 in	2 in
Control wire	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	8 cond	8 cond
Vertical mast load lb	880	1540	1540	660	1100	880	1760	1760	2200	400	800
Rotor w/e	13	17	20	7.5	9	11	11	13	39.5	24	28
drive type	worm drive	worm drive	worm drive	disk	friction	friction	friction	friction	friction	wedge	wedge
Self center mast clamp	yes	yes	yes	Adj	Adj	Adj	Adj	Adj	Adj	no	no
Special notes	3-6	3-6	3-6	6	1-6	6	2-6	6	6	4-7	4-7
Phong (5)	\$269.00	449.95	799.00	209.95	399.00	589.00	679.00	1099.00	3272.00	369.95	439.95
With Preset	\$379.00	\$528.95				\$663.00					

Notes:  
1. Turns Tribander 470° in 35 seconds  
4. T2X and Ham/V have same motor and gear train parts  
5. 120V normal 220V special order

2. Variable speed 40 sec max  
5. EEB prices as of 5/91 subject to change  
8. Wind Load in Sq. Feet

3. Variable speed w/SCR constant rotational torque at any speed  
6. 120/220 taped transformer

### THE NEW GENERATION

An entire generation of amateurs have grown up knowing only one rotator manufacturer. Those old favorites are still popular. But, now a new generation of rotators are out to set high standards with innovative features such as: large machined steel gears, cast and machined aluminum cases, solid state controllers for smooth start/stop, preset, computer control and circular position indicators.

The bottom line is... strong, long term reliability, ease of operation and cost effectiveness. When you erect an antenna system the last thing you need is rotor problems!

### CREATIVE DESIGN ROTATORS

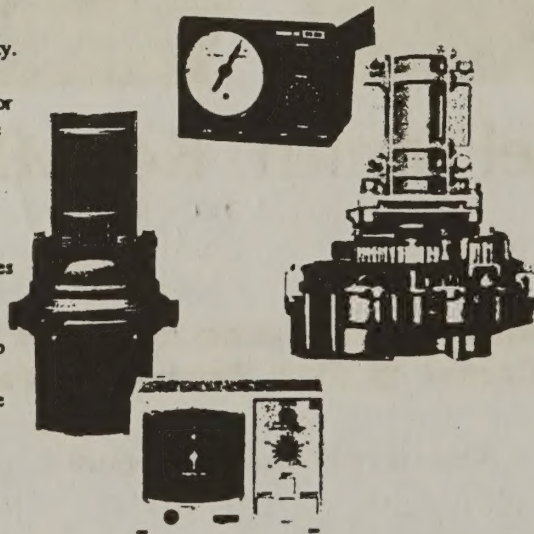
CREATE is serious about long term reliability. The CREATE RC5 series rotators were designed with the serious DX'er in mind. Three models for medium, large and ultra large antenna arrays are available.

### ROTOR FEATURES OF RC5 SERIES

- Large strong reduction gear system provides long term reliability during years of rugged operation.
- Worm drive gearing provides powerful braking force and low backlash to keep your antenna in position during severe weather conditions.
- Cast and machined aluminum case provide the strength required for long lasting service.
- Mast clamp guides for ease of mast installation.

### CONTROLLER FEATURES OF RC5 SERIES

- Speed control using silicon control rectifiers allows slow speed without reduction in rotation torque. Rotating spec is constant 60 to 200 seconds per 360 degrees.
- Reverse delay control (RDC). Delays reverse command to rotor until antenna is at rest. Prevents damage to rotor antenna and tower system.
- Circular dial indicator, for quick accurate reading of antenna direction. Great circle overlay available for USA (west-cent-east).
- Preset (on 3 models) a must for quick setting of antenna direction. Just turn the knob to the new heading, the rest is automatic. Won't waste your time holding down the brake lever and wait.



### EMOTO ROTATORS

More than 60% of all Japan amateurs use EMOTO rotators. Many unique innovations and international patents have made EMOTO number one.

EMOTO has a fool proof method to calculate which of their rotators will satisfy your needs. This GD<sup>2</sup> formula considers your antenna (s) weight, boom and longest element length. The EMOTO sheet is in metric so one must convert weight 2.2lbs= 1kg and length in meters 3.3ft=1 meter. Calculate your GD<sup>2</sup> then compare EMOTO GD<sup>2</sup> spec above.

$$GD^2 = W \times \frac{L^2 + B^2}{12}$$

Where: W: weight of antenna (kg)  
L: length of longest element (m)  
B: length of boom(m)

#### GD<sup>2</sup> EXAMPLES: KgM<sup>2</sup>

TH7DX (437), TH3JR (63), 205BA (675), DISC7-3 (1300), A3S (61), A4S (173), KLM KT34XA (378), 3 ELE TRIBAND (150), 6 ELE TRIBAND (400), 20M 5 ELE (750), 15M 6 ELE (650), 40M 2 ELE SHORT BOOM (240), 40M 2 ELE FULL BOOM (800), 80M 2 ELE (1500), STACK ARRAYS 10M 5 ELE (60), 15M 5 ELE (200), 20M 5 ELE (750), 60+200+750=1010

EMOTO also has a robust AZ-EL rotator that has computer I/O ports. For those working satellites or EME moon bounce the EV700D5X should do the job, as rotating torque is more than double the YAESU G5400B AZ-EL.

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## MEMBER CLUBS

- |   |  |
|---|--|
| <p>Adams County Amateur Radio Society<br/>Alexandria Radio Club<br/>Amateur Radio Research and Development Corp.<br/>Anne Arundel Radio Club<br/>AMSAT-Radio Amateur Satellite Corporation<br/>Antietam Radio Association, Inc<br/>ARINC Amateur Radio Club<br/>Arlington Amateur Radio Club<br/>Baltimore Amateur Radio Club<br/>Baltimore Radio Amateur Television Society<br/>Capital City Amateur Radio Society<br/>Capitol Hill Amateur Radio Society<br/>Carroll County Amateur Radio Club<br/>Central Maryland Amateur Radio Club<br/>Chaverim of the Greater Washington Area<br/>Columbia Amateur Radio Club<br/>Culpeper Amateur Radio Association<br/>D-MARC - Digital MidAtlantic Radio Council<br/>Department of State Amateur Radio Club<br/>Fauquier Amateur Radio Club<br/>Frederick Amateur Radio Club<br/>Frederick Amateur Repeater Group<br/>Friendship Amateur Radio Club<br/>Goddard Amateur Radio Club<br/>Green Mountain Repeater Association<br/>Herndon Repeater Group<br/>IBM Amateur Radio Club<br/>John Hopkins University APL ARC<br/>Laurel Amateur Radio Club<br/>Leisure World Amateur Radio Club<br/>MADRAS<br/>Maryland Emergency Phone Net<br/>Maryland FM Association<br/>Maryland Mobileers Amateur Radio Club</p> | <p>Mercury Amateur Radio Assn., NE Area<br/>Metropolitan Communications Network<br/>Mid-Atlantic DX &amp; Repeater Assn.<br/>Montgomery Amateur Radio Club<br/>Montgomery Auxiliary Communications Service<br/>Moose Amateur Radio Club<br/>Mount Vernon Amateur Radio Club<br/>National Capitol DX Association<br/>Naval Research Laboratory Radio Club<br/>Northern Virginia FM Association<br/>Northern Virginia Radio Club<br/>Ole Virginia Hams Amateur Radio Club<br/>Pentagon Amateur Radio Club<br/>Potomac Area VHF Society<br/>Potomac Valley Radio Club<br/>Prince George's Wireless Association, Inc.<br/>Prince George's County ARES/RACES<br/>Quarter Century Wireless Association, Inc.<br/>Baltimore Chapter #20<br/>Del-Mar-VA Chapter #150<br/>Shenandoah Valley Chapter #137<br/>Vic Clark Chapter #91<br/>Washington Chapter #23<br/>Rock Creek Amateur Radio Association<br/>St. Mary's County Amateur Radio Association<br/>Shenandoah Valley Amateur Radio Club<br/>Southern Maryland Amateur Radio Club<br/>Southern Patuxent Amateur Radio Club<br/>Springfield Estates Elementary School ARC<br/>Stafford Amateur Radio Assn.<br/>Sterling Park Amateur Radio Club<br/>Summit Amateur Radio association<br/>Tri-County Amateur Radio Club<br/>T-MARC, Middle Atlantic Repeater Council</p> |
|---|--|



# AUTO-CALL

## Official Journal of the Foundation for Amateur Radio

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Deadline for copy is the 5th of the month. All contributions are welcomed, but the editor does reserve the right to edit or reject any portion of any copy.

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## COMING EVENTS - 1993

- May 30** Maryland FM Assn. Hamfest, Howard County Fairgrounds
- Jun 6** Ole Virginia Hams Hamfest, Manassas, VA  
Breezeshooters Hamfest, Butler, PA  
Tamaqua Transmitter Society, Tamaqua, PA
- Jun 20** Father's Day
- Jun 20** Frederick Hamfest, Fredrick, MD
- Jun 26-27** Field Day
- Jul 4** Independence Day
- Jul 3-4** ARRL West Virginia State Convention, Jackson's Mill (Weston), VA
- Jul 9-11** YLRL National Convention, Wichita, KS
- Jul 17** AMSAT Semi-annual Meeting
- Jul 11** Carroll County Hamfest, Westminster, MD
- Jul 17-18** Southeastern Division Convention, Atlanta, Georgia
- Jul 25** Brats Maryland Hamfest & Computer Fest, Timonium, MD
- Aug 1** Shennandoah Valley Hamfest, Berryville, VA
- Aug 14-15** ARRL National Convention, Huntsville, Alabama
- Aug 15** Del/Lehigh ARC, Easton PA (New location)
- Aug 28** Southern Patuxent Hamfest, Upper Marlboro, MD
- Aug 29\*** Hershey Park Hamfest, Hershey, PA
- Sep 4-5\*** Shelby Hamfest, Shelby, NC
- Sep 6** Labor Day
- Sep 11** Radio Association of Erie, Erie, PA
- Sep 12** F.A.R.Fest 93, Gaithersburg, MD  
Butler County ARA Hamfest, Butler, PA
- Sep 18** Buffalo Hamfest, Hamburg, NY
- Sep 19** South Jersey Radio Assn, Pennsauken, NJ
- Oct 2-3** Virginia State Convention, Virginia Beach, VA  
Virginia Beach Hamfest, Virginia Beach, VA
- Oct 2-3** York Hamfest, York, PA
- Oct 17** CARA Hamfest, Howard County Fairgrounds, West Friendship, MD
- Oct 24** Mason Dixon Hamfest, Westminster, MD
- Oct 29-30** QCWA National Convention, St. Petersburg, FL
- Nov 25** Thanksgiving Day
- Dec 5** Holidayfest '93, Largo, MD

\* Dates not yet confirmed

*Thanks to Hugh Turnbull-W3ABC and Bob Milligan-KI4MB for providing much of the above information. Please send a copy of your Hamfest flyer to AUTO-CALL and keep us advised of any changes. We are anxious to provide our readers with timely information and help to avoid possible conflicts when scheduling activities.*

*We can use all the help we can get!*



## PRESIDENT'S CORNER

This is the first full month of publication by our new editor. Last month's issue was a combined effort, with mailings and phone calls between editors. Please excuse any errors.

We welcome Doug Allen to the staff! Installation of a new editor's a good time to install some format changes to save space. There are over 70 clubs contributing articles and columns for a 64 page magazine. So, Doug may be doing some innovating, and both of us will be looking for feedback from our readers.

So, what about Ethel? The good news is that she has agreed to accept re-appointment as the Corresponding Secretary for FAR. This is a most important assignment, since Ethel is often the first contact with new clubs and inquiries. It also continues her love affair with the organization she helped found. Read more about Ethel and her value to FAR in particular, and amateur radio in general, in this issue.

You may have noticed some new names among FAR club officers. With the help of these and the rest of our active trustees, we will be updating bi-laws and searching out missing club reports. Don't miss out on the fun. Attend the FAR bi-law meetings in June and July and help be part of the solution!

Happy Father's Day to all the Dads!  
Tony, WA3YLO

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*A note from the FAR president. The following recognition is long overdue! Because our outgoing editor was involved in all aspects of production, I never found a way to "sneak" it by her.*

## HAM OF THE YEAR

It would require a book to relate to you the contributions Ethel Smith has made to amateur radio. I will address some of them to point up the total and consistent dedication demonstrated by her. She has over 50 years in the hobby, starting in Washington State and winding up in the D. C. area, in 1945, after some military assignments.

Her first "achievement" was as the moving force in establishing the Young Ladies Radio League in 1939, and was its first president. She helped form the Washington TVI Committee and was its first president. Even the Foundation for Amateur Radio came into existence with her assistance. Since its formation in 1957, she has been either a trustee, officer or editor EVERY YEAR. Ethel is our current Corresponding Secretary, and is darn good at it. She has edited AUTO-CALL on two separate occasions for a total of over ten years.

A member of QCWA since 1961, she has spent about half of that time in executive board positions as she is in 1993. In 1981 she was elected as a director of the National QCWA, receiving the largest popular vote of any candidate in the history of QCWA. She has also been the PRESIDENT of 5 local radio clubs.

In the area of Public Service, Ethel was an NTS traffic handler and was also the Section Emergency Coordinator for Virginia for the three years ending in 1969. She was also an assistant director for ARRL for seven years and is an ARRL life member. Her awards from the league, QCWA, hamventions and clubs are too many to mention. They all point up what has always been so. If Ethel helps lead it, it will do well.

There are three words which are the basis for the Foundations "Ham of the Year" award. They are, significant, dedicated and sustained. Ethel Smith, K4LMB is all of these, and MORE.

Tony, WA3YLO



# Editor's Notes

I would like to take this time to thank Ethel, K4LMB for all of her assistance with the changeover of Auto-Call Editorship. Her time and patience during the process was greatly appreciated.

There are going to be some format changes in the future to allow for more input by the members and their clubs. I am also looking for more articles of general interest to the Amateur community which should increase the overall readership of the magazine. By making these changes I hope to increase membership in the Foundation.

My system consists of a Dell 486DX50 Computer, 240 MB Hard Drive, 8 Megs Ram, SVGA Monitor, 5.25" & 3.5" Floppy drives and a CD-ROM drive. I use WordPerfect 5.1 for Windows for word processing, Ventura Publisher 2.0 for layout, CorelDRAW 3.0 with CD-ROM for Graphic design with a library of 250 typefaces and over 14,000 clipart images, Photo Styler Image and Photograph enhance-ment package which allows me to enhance any color or black & white photograph and create halftones images suitable for printing. I use a Complete Full Page Scanner with Master Scan Software to Scan images and clipart and WordScan OCR for Windows to scan text files and import them as text or Graphic files into Ventura Publisher.

Input for publication in Auto-Call will be accepted in any format - Handwritten, Typed, Compatible Computer Disk, Fax or Modem. All files submitted on disk should be in ASCII format. Input via modem or fax will be accepted on a prearranged basis. Please call ahead to make the arrangements. Please type all articles flush left, DO NOT indent paragraphs, single space after periods and and let your text wrap around automatically do not use a return to go to the next line. Use a double return to start new paragraphs. DO NOT center text or use any special formatting (i.e., BOLD TEXT, ETC.) in your document. All formatting will be done in Ventura Publisher. If you would like parts of your text in bold or other special format include a hard copy along with your disk and use a highlighter to mark the text you want formatted and make notes as to what you would like.

## ADVERTISING

All Advertising for Auto-Call should be sent directly to my home address and should include the appropriate payment. Please do not include subscription renewal payments with advertising payments. (See subscriptions below) This will allow us to keep more efficient records. If you have any questions about the advertising policy or pricing please give me a call.

## SUBSCRIPTIONS

All new and renewal subscriptions should be sent to the Auto-Call Post Office Box listed at the end of the magazine. Use the application located in the back of Auto-Call and be sure to include the payment. If you have any questions about your subscription please contact John Swafford at the address listed below.

I hope this has cleared up any question you may have concerning Auto-Call and look forward to hearing from you. Please feel free to call me at home between the hours of 9:00 a.m. to 8:00 p.m. Monday thru Saturday.

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## **MAPS-NET BBS**

### **AVAILABLE FOR USE TO AUTO-CALL**

The Maps-Net BBS and Moose Amateur Radio Club have made available to AUTO-CALL Magazine a Section on the BBS for AUTO-CALL. This section is for up-loading files that are to be published in AUTO-CALL. It will also allow for an open forum of messages to the Editor of AUTO-CALL. All files up-loaded for publication in AUTO-CALL will be for my eyes only. No one will be able to view or down-load the files except me. This should eliminate some of the time spent (and money) on line trying to down-load the files to me at home.

When you log on to the BBS you will have to register as a new user. You can follow the prompts, which are easy to understand. After you have logged on you will get a menu. You will then need to type (T) for transfer File. You will then type (U) for upload file. You will then be asked for a file transfer protocol. After selecting the file transfer protocol you will then be asked for the file name - enter the file name and press enter. When asked for file description you must specify - (AUTO-CALL-MONTH-CLUB NAME or COLUMN NAME). This must be done in order for the Sysop to post the up-load in the autocall section. **YOU MUST ENTER A DESCRIPTION TO UP-LOAD A FILE.**

The advantage of using the BBS is that it is available 24 Hours a day. You can up-load your column's or articles at your leisure and don't have to wait for me. I will be checking into the BBS on a daily basis to retrieve message and articles so please take advantage of the BBS and leave you stuff there.

Feel free to use any section on the BBS.

It is an Amateur related BBS and contains some pretty interesting things for Amateur Radio.

## **MAPS-NET BBS (410) 239-4247**

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### **QUATER CENTURY WIRELESS ASSOCIATION WASHINGTON, D.C. CHAPTER 23**

The Washington, D.C. Chapter 23 enjoyed the 1993 FAR/QCWA Annual Spring Banquet on May 8, at the Greenbelt, Maryland Marriott Hotel. This annual social event served as the stage for presenting a 60 year Golden Certificate Award to Ross H. Reynilds, K3USO. Chapter 91 also had two awards to present.

Frank Bauer, KD3HDO, a senior physicist with NASA Goddard of Greenbelt, MD, was the principal speaker this evening. He gave an interesting talk on amateur radio involvement in the space shuttle program of past, current, and future activities.

Ethel Smith, K4LMB, a director of the QCWA, was awarded special recognition for outstanding performance and direction in publishing the Auto-Call Magazine which is looked forward to by a large percentage of the local Washington, D.C. amateurs each month.

A Fine dinner enjoyed by 75 attendees concluded this annual get-together at 10:00 P.M.

73, Stan Brigham, W3TFA, Sec'y/Treas.  
7211 16th Avenue  
Takoma Park, MD 20912



## AFCEA Amateur Radio Operator's Luncheon

The Armed Forces Communications and Electronics Association (AFCEA) Annual Amateur Radio Operator's Luncheon will take place on Wednesday, June 9th at the WASHINGTON CONVENTION CENTER, Room 31. Tickets are \$25 to AFCEA members and \$30 to non-members (Credit cards accepted). Order your tickets from:

The AFCEA Programs Office  
4400 Fair Lakes Court, Fairfax, VA 22033-3899  
Phone (703) 631-6129

Attn: Barbara-Jean Morrisette

Please get your order in as soon as possible as this is a catered event and meals cannot be ordered at the last minute.

The WASHINGTON CONVENTION CENTER is conveniently located between Gallery Place and the Metro Center stations of the subway system.

We anticipate having a speaker from the FCC dealing with Amateur Radio matters. If you would like to make an announcement during this luncheon, or would like additional information, please contact the undersigned. Free admission tickets to the large exhibit area are available to attendees of this function. We look forward to seeing you again this year.

Stuart Meyer, W2GHK, AFCEA VP for Amateur Radio  
2417 Newton Street, Vienna, VA 22181

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## Features Include:

- |                          |   |
|--------------------------|---|
| ✓ Voice Synthesizer      | ✓ (475) Word Vocabulary                 |
| ✓ (40) Voice Messages    | ✓ Female Voice & Sound Effects          |
| ✓ Digital Voice Clock    | ✓ Grandfather Clock                     |
| ✓ (64) Control Functions | ✓ (60) Position Scheduler               |
| ✓ (2) Voice Identifiers  | ✓ (2) CW Identifiers                    |
| ✓ Full Feature Autopatch | ✓ Reverse Autopatch                     |
| ✓ (300) User Speed Dials | ✓ (10) Emergency Speed Dials            |
| ✓ 300 baud Modem         | ✓ LiTZ Emergency Alert                  |
| ✓ DTMF Key Pad Test      | ✓ (8) Remote Control Switches           |
| ✓ Two-Tone Paging        | ✓ Link (Backbone) or Remote Base        |
| ✓ DVR Controller Ready * | ✓ DTMF Repeater Access                  |
| ✓ (40) Macro Commands    | ✓ RS-232 and TTL Computer Interface     |
| ✓ (8) Memory Saves       | ✓ TS-440 & FT-767GX HF Remote Base      |
| ✓ (8) Hardware Inputs    | ✓ Programmable Prefix Codes and Timers  |
| ✓ (10) Courtesy Tones    | ✓ Link Tuning (40) Preset Frequencies * |

\* Requires MF-1000 Serial Interface Card \$59.00

*Write or Call for an eight page brochure describing the CAT-1000 Controller, including schematics, voice vocabulary word list, control functions, and programming commands.*

**CAT-1000 Controller Board \$679.00 Wired and Tested**

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4631 N.W. 31st Avenue, Suite 142, Fort Lauderdale, Florida 33309

**(305) 978-6171**



# American Radio Relay League Report

By John Swafford - W4HU

*This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.*

## Digital Committee Meets - Considers Issues.

The ARRL Digital Committee met March 28 in Boston and addressed the following issues: 1. Continuing work related to automatic HF message relay stations; 2. Radio-to-TNC interface standards; 3. BBS interface standards; 4. The development of wireline message relay systems; and 5. Training material for the beginning RTTY and AMTOR operator.

Study by the committee on HF forwarding was a continuation of last year's efforts, which resulted in the ARRL petition to the FCC in February proposing specific sub-bands for both unattended, fully automatic and semi-automatic message relay stations. To date, the FCC has not acted on that petition.

Acting on a request by the ARRL Board of Directors, the committee is reviewing how the expansion of unattended, semi-automatic operation privileges into other parts of the digital bands could be done while continuing to protect other users of the spectrum. Both the Board and the Digital Committee are concerned with the effect that potential growth will have on the digital bands.

Also of concern, the digital committee reported, is how best to encourage "the development of spectrum-efficient technology and sound operating principles using these increasingly popular modes."

The Committee has developed preliminary recommendations that suggest that unattended, semi-automatic stations operating outside of the sub-bands proposed in the ARRL petition be restricted to digital modes that utilize a bandwidth not to exceed 500 Hz. Stations under full, local control would not be required to meet these new requirements. Because of the narrow bandwidth, several stations could operate in the same

bandwidth that one AX.25 HF packet station would require, ensuring non-interference for the ham not interested in using automatically controlled message relay systems.

## Beaconing would be prohibited.

The Committee also is proposing the development of operating guidelines, with input from digital operators, for automatically controlled stations, including -- at a minimum bulletin handling; interference-avoidance techniques; the proper selection of frequencies; and other methods to improve the efficiency of spectrum use.

Finally, the Committee is encouraging the development of non-HF relay methods, including VHF or above or wireline communications, to lessen the pressure on HF spectrum.

Attending the meeting were Board Liaison Mary Lou Brown, NM7N; Chairman David Speltz, KB1PJ; Vic Poor, W5SMM; Craig McCartney, WA8DRZ; Paul Newland, AD7I; Perry "Bo" McClean, W0XK; Dale Sinner, W6IWO; and Headquarters Staff Liaison Jon Bloom, KE3Z.

## Russian Amateur Scheduled for Nov. Shuttle Flight.

Shuttle flight STS-60, scheduled for this November, includes Russian cosmonaut Sergei K. Krikalev, UZ3AK. Krikalev, 34, is a veteran of the Soviet Soyuz space laboratory, in 1988, as well as riding aboard the Mir space station from May, 1991 to March, 1992. Krikalev is a prime mission specialist for STS-60; a fellow Russian cosmonaut is on standby.

STS-60 has not yet received approval for SAREX operations, because none of the U.S.

*Continued on Next Page*



## ARRL REPORT - Continued

astronauts scheduled for that flight is a licensed amateur. Thus, the SAREX status hinges on Kirkalev becoming a U.S. licensed amateur in time. The ARRL has sent him study materials, including *Now You're Talking*, and Krikalev, who does speak English, is trying to work studies into his busy NASA schedule.

Krikalev has been pushing in his home country for the signing of both a 3rd party agreement and an Amateur Radio reciprocal operating agreement, both of which are hung up in Moscow as more pressing matters are attended to. The signing of either of these agreements would enable Krikalev to become eligible for SAREX operation from STS-60, whether or not he receives a full-fledged U.S. license in time.

Meanwhile, SAREX shuttle flight STS-56 is aloft as this is written and scheduled to land April 16. Its all-ham crew has been active working a number of school classrooms. The New York Times reported that on April 11 Discovery made contact by Amateur Radio with the MIR space station.

"...one of Discovery's five astronauts, Dr. Michael Foale [KB5UAC], chatted by ham radio with a crew member aboard Russia's Mir space station," the Times said, "marking the first ship-to-ship conversation in the shuttle program."

The Times was correct; in April, 1991, Astronaut Ken Cameron, KB5AWP--the commander on the current flight--nearly had a 2-way contact with Musa Manarov, U2MIR. It was close but not quite (See July, 1991 QST).

"Dr. Foale," the Times reported, "said he was able to exchange a few words with Aleksandr Poleshchuk before losing contact. The contact occurred as the two spacecraft passed within 86 miles of one another over South America."

Incidentally, if you'd like to work with a School during the STS-58 SAREX mission scheduled for this fall, write to the ARRL Educational Activities Department (EAD) to get a SAREX application. The EAD will tell you how to write a proposal to

be considered for a scheduled school-to-space QSO. Proposals are due at the ARRL EAD by May 10. The EAD offers free lesson plans and resource materials for every SAREX mission.

### Briefs.

Maybe it will have stopped snowing in Newington by June 6, the date of the annual Headquarters open house. It's from 10 a.m. to 4 p.m. and as usual on the same day as the flea market of the Newington Amateur Radio League.

Also in June by Viking Amateur Radio Society of Waseca, Minnesota, will celebrate the 70th anniversary of its parent company, the E.F. Johnson Co. The club will operate from one of the company's original buildings in Waseca on June 18-20 and again during ARRL Field Day June 25-27.

The Club has asked for special permission to use the call sign 9ALD, the original call of the company's founder Edgar F. Johnson (who died in 1991). If that permission is not forthcoming from the FCC, the club will use its own call sign, WA0CJU.

Operations are planned on all "non-WARC" bands from 160 to 10 meters, on AM, SSB and CW, with QSLs and certificates going to those contacting the station. Guest operators are welcome, and the club has a telephone hotline for information: 507-835-6612.

The premier episode of "Walker, Texas Ranger," starring Chuck Norris, was aired Wednesday, April 21, on CBS television. This was a new series that was being filmed in Dallas back in February during which filming the production crew was caught using, apparently unknowingly, hand-held transceivers programmed to operate in the amateur 420-MHz band. The story was on page 78 of April QST.

*Continued on next page*



The ARRL Awards Committee has unanimously voted to accept recommendations of the ARRL DX Advisory Committee (DXAC) as follows:

1. Add Macedonia (former Yugoslav rep, 4N5, YU5) to the DXCC Countries List for contacts made 8 September 1991 and after;

2. Delete Czechoslovakia (OK-OM) effective 1 January 1993. (Contacts made 31 December 1992 and before count for this deleted country);

3. Replace Czechoslovakia, effective 1 January 1993, with the Czech Republic (OK, OL) and the Slovak Republic (OM).

The DXCC Desk will accept QST cards for these three new countries beginning 1 June 1993. QSL cards received at the DXCC Desk before 1 June 1993 will be returned without action.

The satellite radio show "This Week in Amateur Radio" has a new producer: Community Video Associates of Albany, NY. Stephan Anderman, WA3RKB, is host and executive producer of the show, which airs at 5 p.m. ET via the Spacenet 3 communications satellite, transponder 21, on 5.8 MHz wideband audio.

George Bowen, N2LQS, is president of Community Video and serves as technical director for "This Week." Community Video is a non-profit,

charitable foundation, according to a news release from them.

### Quote of the Month:

"Within 24 hours of the license arriving [in 1963], I had applied to join the Radio Society of Great Britain...in those days you joined the RSGB -- it was the done thing, and those who weren't members were looked at somewhat askance." -- New RSGB President Peter Chadwick, G3RZP.

New dates for the Radio Society of Great Britain's International HF Convention are October 8-10, 1993, a change from earlier announced dates. The convention is held at the Beaumont Conference Center, close to Heathrow Airport and Windsor Castle. A brochure and reservation form are available from RSGB HF Committee, PO Box 599, Hemel Hempstead, Herts, HP3 0SR U.K.

The March issue of QST Canada announced the 1992 Canadian Radio Relay League Amateur of the Year for 1992: Will Melhuish, VE3AOY. Melhuish, 71, has been licensed since 1970. He has been visually impaired since 1938 and was picked for the CRRL award for his volunteer services as manager -- since 1989 -- of the Amateur Radio program at the Canadian National Institute for the Blind (CNIB).

The CNIB program, which pairs clients with sighted amateurs, has 486 current participants.

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## 1993 BAY BRIDGE WALK

by KK4GV

On Sunday May 2, Jennifer (N3MDS), Christopher (No Call Yet), and myself set out to walk the Chesapeake Bay Bridge. The weather was phenomenal so a larger than usual crowd showed up. It took us two and a half hours to get a bus from the Naval Academy to Kent Island to begin the walk. We had met another HAM (Dave N6TAU) waiting for the bus and ended up about a half mile apart from him on the bridge walk. No radio club was working the event but we stirred up some activity on the Davidsonville machine and I even worked Al W2GJS through the Cheltenham repeater with an HT from the the center span.

Here's the catch ... The busses leaving the walk don't go back to the academy, they go to the Bayfest at Sandy Point State Park. The Bayfest was fantastic but I wish I had known to plan to be out all day. I highly recommend that you go next year if you have never done it. The walk is 4.3 miles across the beautiful Chesapeake Bay that's just not the same from a car. The Bayfest is fun, music, food, and exhibits that educate the public and help fund efforts to save the bay. After some Bayfest fun, beer, and seafood the bus lines were shorter so we made it back to the car. What a GREAT day.



## Elmer's Corner

### Paul Wilkins - AB4CY

*This column will be devoted to helping new Amateurs understand some of the common questions encountered by most of us in our early hamming endeavors. Write us about your problems and we will try to provide the answers. Your input will be most welcome.*

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When I first started delving into electronics as a kid, if the circuit diagram called for an 18 Kilohm resistor and all I could find in the junkbox was a 12K and an 22k resistor, I was convinced that I couldn't build it. Much later I observed that the vacuum tubes in those circuits (the same thing applies to transistors) had characteristics that varied by plus or minus twenty percent from the values published in the data books and either of the two resistors I had would have worked just fine. I think of this when I hear (or read) the chatter about antennas, feedlines, matching, and Standing Wave Ratios (SWR). Today's pricey transceivers come with a builtin SWR meter and the SERIOUS limitation of being able to work efficiently ONLY into a 50 ohm load. This is the result of "engineering out" (to reduce cost and size) any output impedance adjustment with a variable "loading" capacitor that you find in the PInetwork tank circuits of older design transceivers. In previous generations of equipment tubes used high impedance parallel resonant tank circuits with low impedance swinging (variable coupling) links to "match" changing antenna feed line impedances at different frequencies. These were gradually replaced by PI networks with plate tuning and output coupling variable capacitors that allowed you to match a wide variety of transmission line impedances. With the new equipment, this flexibility is gone. It is in error however to think that ONLY a 50 ohm antenna can be made to work.

Any radiating element (antenna) has a natural resonant frequency which means it appears as a resistive powerconsuming load to a driving source. If you change that frequency (or the length of the radiator at a constant frequency) by even a small amount the resistive load becomes complex which means that it now has either an added capacitive reactance component (the radiator is too short for resonance) or an added inductive reactance because the radiator is too long for

resonance. A thin wire antenna "cut" to have an SWR of 1:1 at 7100KHz will have an SWR of 1.5 at 7000KHz and about 3:1 at 7300kHZ.

With a proper matching network (antenna tuner) that can cancel the net inductive or capacitive reactance presented by the feedline, as a result of a nonresonant length of antenna and a random length feed line which is mismatched at the antenna feed point, can be made resonant and ALL of the power available at the antenna feed-point will be absorbed by the radiator (Ref 1.). What this really means is that you can drive anything as a radiator with a proper matching network. Whether the radiator is particularly effective or not is another question. For instance, if you load up a six foot whip on 80 meters it won't be particularly effective, but if you only have a 90 foot wire (instead of a 127 foot halfwave on 80) you CAN obtain a good match and very reasonable radiated power.

So you don't have to be afraid of 50 ohms only. I use a 33 foot horizontal wire end fed with a 600 ohm openwire line and using a transmatch it will load up my 50 ohm output ICOM 735 on any part of any band with a SWR as low as the meter will read it. For demos at schools I throw a random wire up in a tree and load that up too.

A high SWR on a lossless line does not consume any power. Any power loss due to SWR occurs in the feed line which is why open wire (low loss) transmission line has remained a favorite. A mismatch at the 50 ohm transmitter output causes a real power loss because of detuning, not SWR.

A really neat technical book that puts these matters straight and debunks SWR myths has been written by M. Walter Mathews, W2DU. It is titled "Reflections" and is published by ARRL as publication 119 of the Radio Amateur's Library.



# MANASSAS HAMFEST

AMATEUR RADIO AND COMPUTER SHOW  
AN ARRL APPROVED HAMFEST



**SUNDAY, JUNE 6, 1993**

**PRESENTED BY THE OLE VIRGINIA HAMS A.R.C., INC**

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**INDOOR EXHIBIT SPACE AVAILABLE FOR DEALERS AND MANUFACTURERS**  
**\*\*\* FOOD PROVIDED BY THE PARK WEST LIONS CLUB \*\*\***

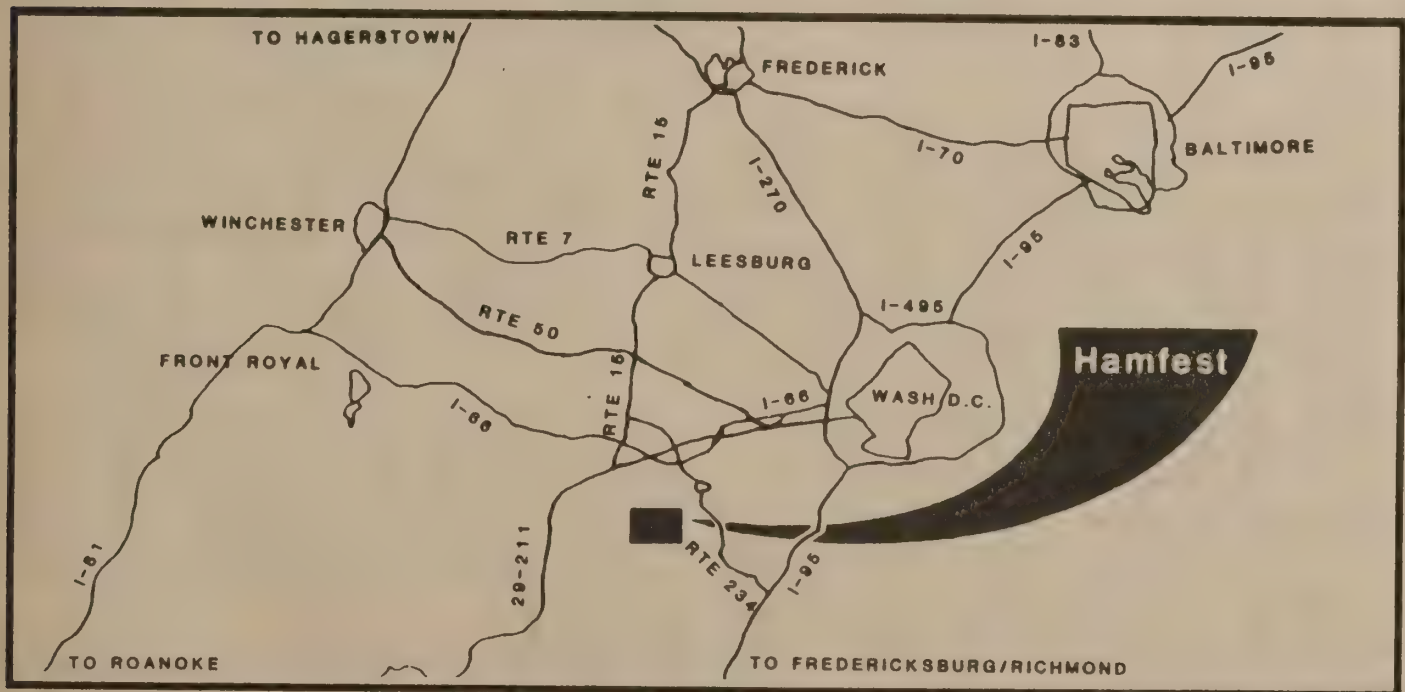
**GENERAL ADMISSION:**

\$5.00 Per-person at gate  
No advance sale  
Gates open at 8.00 A.M.

**TAILGATING:**

\$5.00 Per-space in addition to  
general admission  
Gates open at 7.00 A.M.

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## GENERAL INFORMATION

- Ample room for tailgating - 25 acres.
- Commercial building is available for set-up from 2:P.M. until 8:00 P.M. on Saturday the 5th.
- Prior written approval for food venders must be obtained from the Hamfest Chairman.
- RV Overnight parking available

**Dealer's Information Call:**

Woody (KD4DEG) 703-368-5180

**General Information Call:**

Mary Lu (KB4EFP) 703-369-2877



# MARYLAND RADIO CENTER

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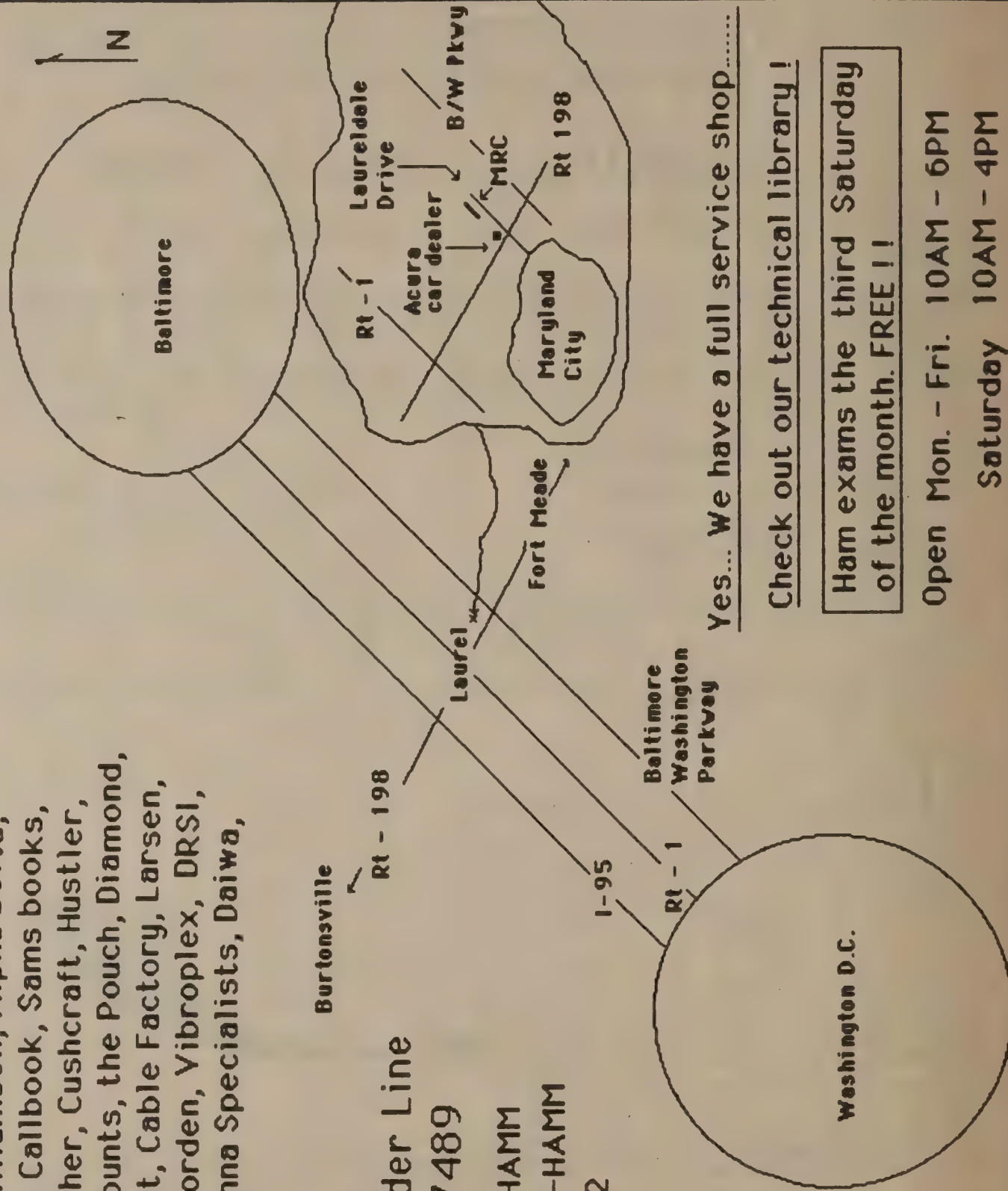
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3513 Old Post Road, Fairfax, VA 22030  
(703) 691-0078

## SCHEDULE OF EXAMINATIONS 1993

NOTICE: If you presently have a Technician class license which was acquired prior to March 21, 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for element 3B (General Theory).

### JUNE 5, 1993

VIRGINIA BEACH ARC (VIRGINIA BEACH VA)(ARRL VEC)  
CONTACT: ED ROBINSON WD4GOY 804/468-0866

UNIVERSITY OF MARYLAND ARC (COLLEGE PARK, MD)(W5YI VEC) WALK-IN  
CONTACT: SCOTT ROSENFELD NF3I 301/206-9921

### JUNE 6, 1993

D.C.M. ARC (LANDOVER, MD)(W5YI VEC) WALK-IN  
CONTACT: FREDDIE BATTLE NG3G 202/546-9348 (DAY) 301/773-2898 (EVENING)

### JUNE 11, 1993

PIEDMONT TECHNICAL CENTER (CULPEPPER, VA)(ARRL VEC) PREREGISTRATION  
CONTACT: BILL BROWN AC4KP 703/547-3089

### JUNE 12, 1993

MASSANUTTEN ARA (HARRISONBURG, VA)(ARRL VEC) WALK-IN  
CONTACT: MARSHALL COOPER N4ZKH 703/856-8012 BETWEEN 6-9 PM

MOUNTAIN ARC (CUMBERLAND, MD)(MOUNT ARC-VEC) WALK-IN  
CONTACT: LEO PATTERSON KQ8E 304 /289-3576 GAY REMBOLD W3D VW 301/724-0674

ANNE ARUNDEL RADIO CLUB (DAVIDSONVILLE, MD)(LAUREL VEC) WALK-IN  
CONTACT: NANCY ALLEY NT3Z 410 761-7115 BOB ISRAEL WC3I 301/262-5083

RICHMOND, VA (ARRL VEC) PREREGISTRATION REQUESTED  
CONTACT: RICK COOK AB4U 804/798-5048

MT. VERNON ARC (ALEXANDRIA, VA)(LAUREL VEC) WALK-IN  
CONTACT: FRANK MACKEY N4OUS 703/455-1510

### JUNE 17, 1993

BALTIMORE ARC (TOWSON, MD)(ARRL VEC)  
CONTACT: BOB KENNICK WB3HNV 410/426-8255

*Continued on page XX*



**JUNE 19, 1993**

LAUREL ARC (LAUREL, MD)(LAUREL, VEG) PREREGISTRATION DESIRABLE  
CONTACT: JOHN CREEL WB3GXW 301/572-5124 AFTER 6 PM

**JUNE 21, 1993**

MARYLAND MOBILEERS ARC (LAUREL VEC) LIMIT WALK-IN  
CONTACT: JERRY GAVIN NU3D 410/761-1423 ED CALHOUN W3DEQ 410/647-0370

**JULY 10, 1993**

CHESAPEAKE DX ASSN (CHESAPEAKE, VA)(ARRL VEC)  
CONTACT: BILL VEREBELY KC4YX 804/424-4764

ANNE ARUNDEL RADIO CLUB (DAVIDSONVILLE, MD)(LAUREL VEC) WALK-IN  
CONTACT: NANCY ALLEY NT3Z 410/761-7115 BOB ISRAEL WC3I 301/262-5083

RICHMOND, VA (W5YI VEC) PREREGISTRATION REQUESTED  
CONTACT: DOW PIERCE 804/232-8128

MT. VERNON ARC (ALEXANDRIA, VA)(LAUREL VEC) WALK-IN  
CONTACT: FRANK MACKEY N40US 703/455-1510

UNIVERSITY OF MARYLAND ARC (COLLEGE PARK, MD)(W5YI VEC) WALK-IN  
CONTACT: SCOTT ROSENFELD NF3I 301/206-9921

DEPARTMENT OF STATE/GWU ARC (WASHINGTON, DC)(ARRL VEC) WALK-IN  
CONTACT: DERRILL ROHLFS W3WOX 301/423-0179

**JULY 11, 1993**

D.C.M. ARC (LANDOVER, MD)(ARRL VEC) WALK-IN  
CONTACT: FREDDIE BATTLE NG3G 202/546-9348 DAY) 301/773-2898 (EVENING)

**JULY 17, 1993**

LAUREL ARC (LAUREL, MD)(LAUREL, VEC) PREREGISTRATION DESIRABLE  
CONTACT: JOHN CREEL WB3GXW 301/572-5124 AFTER 6 PM

**JULY 21, 1993**

MARYLAND MOBILEERS ARC (LAUREL VEC) LIMIT WALK-IN  
CONTACT: JERRY GAVIN NU3D 410/761-1423 ED CALHOUN W3DEQ 410/647-0370

**JULY 23 1993**

PENTAGON ARC (ARLINGTON, VA)(ARRL VEC) PREREGISTRATION DESIRED  
CONTACT: MARK WAGNER KB2PG 703 697-5752 (DAY) 703/239-1255 (7-10 PM)

**JULY 26, 1993**

ANTIETAM RADIO ASSN ARC (HAGERSTOWN, MD)(ARRL VEC) PREREGISTRATION REQUESTED  
CONTACT: PAGE PYNE WA3EOP 301/714-0688 (DAY) BOB LAY 301/714-0688 (EVENING)

*Continued on page XX*



**JULY 30, 1993**

**STAFFORD ARA (STAFFORD, VA)(ARRL VEC) WALK-IN**

**CONTACT: DAVID BOYD K9MX 703/659-6241 JIM MCCLOUD N4LZJ 703/786-8012**

**AUGUST 1, 1993**

**D.C.M. ARC (LANDOVER, MD)(W5YI VEC) WALK-IN**

**CONTACT: FREDDIE BATTLE NG3G 202/546-9348 (DAY) 301/773-2898 (EVENING)**

**AUGUST 7, 1993**

**MIDDLETOWN VE TEAM (MIDDLETOWN, VA)(ARRL VEC) WALK-IN**

**CONTACT: WALT QUITTER NC4B 703/869-5241**

**UNIVERSITY OF MARYLAND ARC (COLLEGE PARK, MD)(W5YI VEC) WALK-IN**

**CONTACT: SCOTT ROSENFELD NF3I 301/206-9921**

If you presently have a Technician class license which was acquired prior to March 21, 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

**NOTE: All examinations require that you submit:**  
**Copy of your current Amateur Radio License (Bring Original)**  
**Completed FCC Form 610**  
**Check for appropriate examination fee**  
**Fees of individual VEC may vary**

**FOR ARRL VEC EXAMS, THE COST IS \$5.60**  
**FOR LAUREL VEC EXAMS, ALL TESTS ARE FREE**  
**FOR MOUNRAIN VEC EXAMS, ALL TESTS ARE FREE**  
**FOR W5YI VEC EXAMS, THE COST IS \$5.60**

**This schedule of examinations appears each month in Auto-Call Magazine**  
**Sponsored by the Foundation for Amateur Radio**

## **FOUNDATION MEETING**

**The Foundation for Amateur Radio, Inc. meets at 8: p.m. on the second Wednesday of each month.**

**Visitors are always welcome**

**The next meeting will be on June 9 in Takoma Park, Maryland**  
**Columbia Union College Science Building Auditorium, Flower Avenue**

**(Take beltway exit 30 South on Colesville Road to Franklin Avenue, East on Franklin to Flower, South to the college)**

**Talk-in on 147.18**



# Training Classes

## General Information

Alexandria Radio Club.....	John Forest - WZ4A.....	(703) 971-3905
Anne Arundel Radio Club.....	Tony Young - WA3YLO.....	(301) 262-1917
Arlington Amateur Radio Club.....	Fred Bardsley - WD4DHW.....	(703) 533-0372
Antietam Radio Association.....	Robert Long - KD3JK.....	(301) 824-5132
Baltimore Radio Amateur TV Society.....	Joe Chidester - W3SHZ.....	(410) 602-0353
Fauquier Amateur Radio Club.....	Neil Spokes - AB4YK.....	(703) 364-3861
Frederick Amateur Radio Club.....	Steve Bauman - W3FOA.....	(301) 662-4552
Herndon Repeater Group.....	Michael Weber - WB8RDN.....	(703) 450-2304
Laurel Amateur Radio Club.....	Pud Reaver - W3DQI.....	(301) 498-6293
MADRAS.....	Larry Zecheck - N3GKS.....	(301) 984-6112
Maryland Mobileers ARC.....	John Baugus - N3JME.....	(301) 551-3161
Montgomery Amateur Radio Club.....	Jane Rosenthal - AA3CQ.....	(301) 762-6262
Mount Vernon Amateur Radio Club.....	John Forrest - WZ4A.....	(703) 971-3905
NASA/Goddard Amateur Radio Club.....	Vikki Gigante - KA3PVS.....	(301) 249-2609
Ole Virginia Hams ARC.....	John Fritsch - N4YOB.....	(703) 791-5995
Pentagon Amateur Radio Club.....	David Boyd - K9MX.....	(703) 659-6241
Rock Creek Amateur Radio Assn.....	Walt Ramsey - AK3B.....	(301) 949-3954
St. Mary's County ARA.....		(301) 862-2214
Shenandoah Valley ARC.....	Guy Black - W4PSJ.....	(703) 722-4952
Southern Maryland ARC.....	Vic Curtis - WA3YUV.....	(301) 888-1388
Southern Paluxent ARC.....	Dwayne Kincaid - WD8OYG.....	(301) 586-2177
Springfield Estates ARC.....	Will Schmitt - KD4CNX.....	(703) 768-5709
Stafford Adult Education.....	Jerry Mullinix - AC4HK.....	(703) 659-3905
Sterling Park Amateur Radio Club.....	Mark Johnson - WS3N.....	(703) 430-3804
Tri-County Amateur Radio Club.....	Al Sines - WA3QGA Box 710, College Park, MD 20740	
Vienna Wireless Society.....	Paul Wilkins - AB4CY.....	(703) 560-2779
Woodbridge Wireless, Inc.....	Loyd Davis - K8EI.....	(703) 360-0248

Novice/Technician Class, Herndon, VA. Starting September 11 and running through November 20. Sponsored by the Herndon Repeater Group. The course will be held on Saturday mornings from 9:00 a.m. to 12:30 p.m. Novice Code, Novice theory and Technician theory will be taught. This class is designed for beginners wanting either the Novice, Tech Plus or No Code Tech license. Contact Mike - WB8RDN at (703) 450-2304 for details.

Novice Training Classes, N.W. Washington, DC. Sponsored by MADRAS. For more information contact Larry Zecheck - N3GKZ (301) 984-6112.

Novice/Tech Training Classes, The Mount Vernon Amateur Radio Club will sponsor an entry level training course leading to the Novice and Technician (No Code) Amateur Radio Licenses. The course will be held in Alexandria, VA on Monday nights from 7:30 to 9:30 p.m. beginning September 13, 1993 and will run for about 14 weeks. There is no charge for the course; however, students will be expected to provide study materials costing about \$30. For information and location, contact: John Forrest, WZ4A at (703) 971-3905

Novice Training Classes, Towson, MD. Sponsored by BRATS. Classes are being held on an on-going basis every Tuesday evening at the Towson Armory. Classes are free; Materials (which you keep) consist of a book and tape and cost \$19.90. For registration or information, contact Joe Chidester - W3SHZ (410) 602-0353

Training Classes, Hagerstown, MD. Sponsored by Antietam Radio Association, Inc. Classes are held on an on-going basis. For information, contact Bob Long - KD3JK (301) 824-5132

SLOW CODE PRACTICE NET, 28.250 MHz 7:00 to 8:00 p.m. Wednesdays. Sponsored by Woodbridge Wireless, Inc

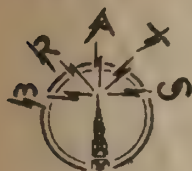
VIRGINIA TRAFFIC TRAINING NET - 3685 kHz 6:30 p.m. daily. 5 - 8 wpm.

CODE PRACTICE NET - 146.94 Kent Island Repeater. 5/13/20 wpm

See Training Contacts by clubs listed on page in this issue.



# MARYLAND HAMFEST AND COMPUTER FEST



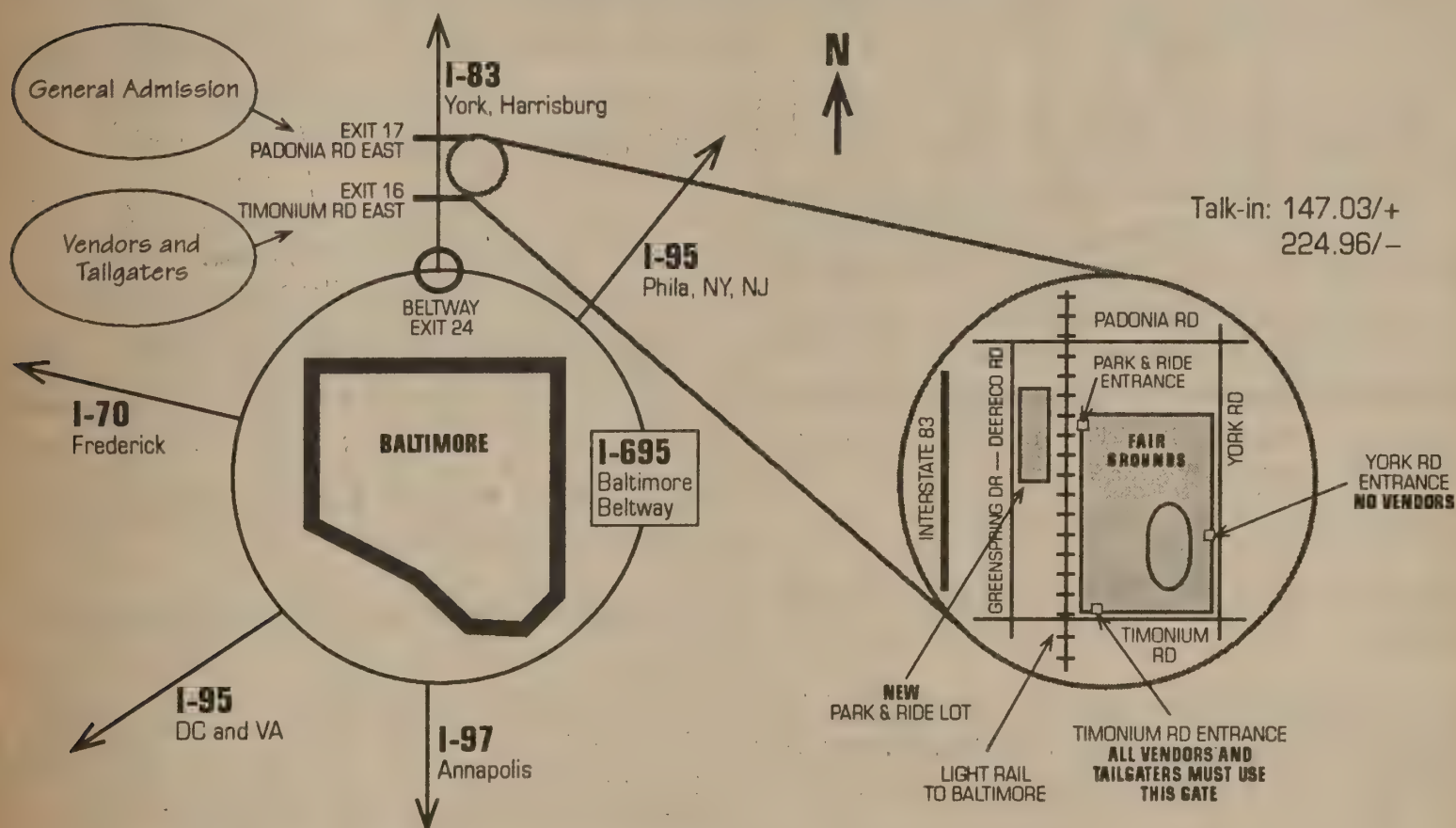
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THE BALTIMORE RADIO AMATEUR TELEVISION SOCIETY

**SUNDAY, JULY 25, 1993**

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# FCC HIGHLIGHTS

by Jack Kelleher - W4ZC

## Revision of Part 97.113 of FCC ARS Rules

For years there have been inquiries about and requests for relaxing the rules concerning types of communications that should be permitted (and prohibited) on the ham bands.. In mid-1992 the FCC issued a Notice of Proposed Rulemaking (NPR) in this matter. The deadline for public comment was 1 October 1992 (and for reply comments, 1 December), and final action is in the offing. There is some impatience that action has not already taken place -- but considering the unprecedented nature of the changes, we should be content to wait a bit longer.

Ralph Haller, Chief of the Private Radio Bureau, addressed the problem in his remarks at the 1991 ARRL National Convention, suggesting that the Amateur community come up with some wording for proposed rulemaking. The ARRL responded in a letter to Haller dated January 6, 1992, containing a proposed restatement of Part 97.113. In February the FCC issued a Public Notice soliciting comments on this and other proposals for rulemaking and, as noted above, issued an NPR last July.

Indications are that final action will occur this summer.

(For more information see our articles in Autocall for March and August 1992 and March 1993).

## Special Call Signs

In our October 1992 column we referred to Ralph Haller's comment on "personalized call signs" at the 1992 ARRL Convention. Mr Haller noted that the Commission has this matter under active consideration. W5YI's Report for May 1, 1993 chronicles where things stand at the FCC, including distinctive call signs. Responses to W5YI from the FCC indicate that the solution not only involves the computer at Gettysburg, but also rulemaking -- present rules (Part 97.17) prohibit

(the FCC) from granting requests for specific call signs.

## More on 219-220 MHz

Last month we reported on an FCC NPRM proposing to allocate 219- 220 MHz for amateur point-to-point backbone packet networks on a secondary non-interference basis. This was in response to an ARRL petition seeking shared access to the 216-220 MHz band, to compensate for loss of the 220-222 MHz subband in 1990. The Commission did not grant access to 216-219 MHz, to avoid interference to TV channel 13 and to the new Interactive Video and Data Service (IVDS).

## ARRL Says No to SMUT

We are criticized, from time to time, for quoting too much from other sources rather than "doing our thing". The following material, quoted from the ARRL Letter for April 14, 1993, is too important and unprecedented an action to risk distorting its intent by editing, other than to say -"The time has come to place some bounds on First Amendment 'rights'".

"The ARRL has filed a 'friend of the court' (amicus curia) brief in support of the Federal Communications Commission in the Commission's defense against a lawsuit. The suit.- brought by Action for Children's Television and 20 other-broadcasting and public-interest organizations, challenges the FCC's monetary forfeiture procedures in indecency cases. The League's interest in the matter is to protect the interests of radio amateurs in effective FCC enforcement.

"The suit, brought in U.S. district court in Washington, D.C., alleges that the forfeiture proceedings in indecency cases violate Constitutional due-process and free-speech protections.

*Continued on next page*



"The plaintiffs argue that prompt judicial review of FCC indecency forfeiture orders is not available, and that broadcasters are thus forced to engage in self censorship.

Plaintiffs also claim that the FCC has used such forfeiture orders to punish or threaten broadcasters in other ways, in violation of the Communications Act.

"The plaintiffs -- the broadcast interests -- have asked that the Court, among other things:

1. Find that the review procedures now used by the FCC cannot constitutionally be used to adjudicate alleged indecency violations under federal law-
2. Enjoin the FCC from initiating or conducting forfeiture proceedings for alleged violations of federal law concerning indecency; and
3. Order the dismissal of all indecency forfeiture proceedings currently pending before the Commission.

"Because the relief sought by the plaintiffs is not limited to the Broadcasting Services, the case could affect FCC efforts to enforce its rules on the Amateur Service, efforts strongly supported by the ARRL and, according to surveys taken by the League, by an overwhelming majority of radio amateurs.

"The League said in its brief said that 'If anything, the Commission has not been aggressive enough in issuing monetary forfeitures for indecent transmissions in the Amateur Radio Service. Monetary forfeitures have been levied only for past transmissions, in egregious cases, during times when children are likely to have receivers tuned to amateur frequencies.

"Specific determinations as of times when children are likely to participate in amateur radio communications have been the subject of a study by the League, and the findings have been submitted to the Commission.

The League said it supported the FCC's history of use of monetary forfeitures as a remedy for 'past, repeated, indecent transmissions' by amateurs, calling such forfeitures 'critical to the maintenance and utility of the character of the Amateur Radio Service.

"It is a remedy applied sparingly in the Amateur Radio Service, and in the League's opinion, too sparingly" the League said. "If monetary forfeitures are not available to the Commission as a remedy for indecent speech, there cannot be expected any future enforcement in the Amateur Radio Service at all.

"The Commission has, in the last ten years, relied on the deterrence effect of a very few enforcement actions, and the self-regulatory character of the Amateur Radio Service. It cannot (and cannot under current circumstances be expected to) dedicate the limited resources available for enforcement to full evidentiary hearings in the indecency cases in the Amateur Radio Service, nor should license revocation, or the ineffective cease and desist procedure, be the only remedies available to the Commission in such cases"

We apologize for the length of the foregoing -- but we hope you will indulge us if we also repeat the editorial comment thereon by Westlink for April 14, biz:

"By far, this is probably the most important position that the ARRL has taken in modern times, and by its action, it might well help to determine what does and does not constitute legally objectionable language over the airwaves -- all of the airwaves. We applaud ARRL President Wilson and the Board of Directors in taking this position in favor of human decency. Leadership like this is very much needed. When it appears, it must be honored.

"For those who need it said in one paragraph, what the ARRL is doing by entering into this case is simply saying that enough is enough.

*Continued on Next page*



# Sayonara from the ex-Editor

My sincere thanks for all the accolades I have been receiving upon my retirement from the Auto-Call. I appreciate the kind words very much, but I think the thanks should be the other way around. I have thoroughly enjoyed every minute of my 57 years as a Ham, and I have received more pleasure and more benefits from Amateur Radio than I can ever possibly repay. It is nice to hear you say I may have contributed a little bit in return. I hope I can continue to make some more down payments.

I had the rare privilege of growing up with Auto-Call and with the Foundation. I started out as chief "gofer" for Andy Anderson- W3NL/KNL back in 1952, and the Auto-Call became the catalyst for the formation of the Foundation about 5 years later. As the Foundation grew and Auto-Call grew along with it, both became somewhat of a consuming passion with me. Thanks to the efforts of our dedicated columnists, Auto-Call really has become a great little magazine. I know I am going to miss working on it. I don't think I'm going to miss the monthly deadlines, though! I'm now looking forward to having time to actually get back on the air again!

I believe we have a great new editor in Doug Allen-N3FHM. Doug has a lot of capability and a enthusiasm (and about 38 years edge on me!). I know you will enjoy working with him. He will be bringing some refreshing new style and innovations to the Auto-Call and I'm sure it will grow and prosper under his leadership.

My sincere thanks to all for the great cooperation and consideration you have given me over the years. Please keep an ear out for a rusty fist and a strange call on the ham bands. I hope to keep in touch.

Ethel Smith - K4LMB

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**Remember, New or Renewal Subscriptions for Auto-Call are to be sent to**

**Auto-Call Magazine  
P.O. Box 7612  
Falls Church, VA 22040-7612**

## ADDRESS CHANGES

If you are moving, or if your mailing address is being changed even for a brief period, please let us know well in advance. Third class mail is not forwarded by the post office, so if you are one of the Snow Birds who go south for the winter and north for the summer, be sure to keep us advised. We'll be glad to make the temporary change. We want you to get your Auto-Call but we can't afford to replace rejected mailings.

**Please keep Auto-Call advised of address**

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## FCC HIGHLIGHTS - Continued

The League believes that the half a million members of the amateur radio community by and large support the FCC, that we see no conflict between the rules and regulations guiding our service and the legitimate exercise of freedom of speech, and that the FCC must be permitted to enforce its rules.

"In our Yiew, the problem we have today is that there are some who feel that all their rights in this world are absolute, that they have the absolute right to do as they please at the expense of all others.

"This is defined as 'anarchy'.

"There are those who claim that indecency, obscenity and profanity are Constitutionally protected and that all of us do not want to hear it should simply turn off our radios and TV sets. What they have failed to do is to study history. The purpose of the First Amendment to the Constitution was not to destroy civilization, but to guarantee free and open discussions between competing philosophies. It was for the sake of unrestricted political debate that speech, assembly and publication (press) are protected, not so that the social contract can be destroyed.

"Westlink Report is proud of the American Radio Relay League and its President, George Wilson ..... (Ed: We can only add "Amen").



With all the changes in DXing in the past few years, it has become apparent that a new approach to the DXCC Honor Roll(s) must be found. Years ago, it took along time and much dedication to achieve honor roll status, however in today's DX environment, it has become much easier to make the DXCC Honor Roll. A lot of countries that have been off the air for decades have been activated, the world geopolitical situation has contributed to this fact. The world has seen big changes in the past few years and these events have reflected back to DXing. The rules for the existing DXCC Honor Roll were created decades ago and no longer relate to a great degree to what is happening now.

Should the rules for the DXCC Honor Roll be changed? I guess it all depends on where you are on the honor roll. If you are on the top, you probably do not give it much thought. If you are just on it, you probably are quite concerned due to the fact if the rules are changed to make it harder to get on the honor roll, you could fall off or if you are not quite there, the goal line might be moved farther away. Another question is that how many of the DXCC participants should be considered for the honor roll? 25%, 10%, 5%? When the size of the honor roll gets to be a significant part of all participants in the program, is it really a honor roll anymore? Another issue is that the honor roll is getting too big to publish in QST. There is a limit to how small the print can be made and how many pages it uses. I have been told that the next annual list will be 14 pages in QST. I think this is too much and takes away from other things of broader interest that should be in QST.

I attended the DX Advisory Committee at Dayton and requested that they put the honor roll issue on their agenda. It will also be discussed at the Membership Services Committee meeting in three weeks. If you have any ideas or recommendations on the honor roll issue, please send you input to the DX Advisory Committee. You can send it to ARRL in Newington and mark it for DXAC. It will be copied and sent to all 16 members of the committee.

#### **UPCOMING DXPEDITIONS**

American Samoa	KH8/HB9TL	June 18-20
Bahrain	A92WH	April 11 to June 30
Fiji	3D2TL	May 27 to June 2
Liechtenstein	HB0/DA1WA	May 28 to June 6
St. Pierre/Miq.	FP/ YL team	June 17-24
Wallis Is.	FW/HB9TL	June 3-8
Western Samoa	5W/HB9TL	June 14-17

#### **NEW COUNTRIES ADDED TO DXCC LIST**

In a DXCC News Release dated April 13, 1993 from the DXCC Desk at ARRL HQ, it was announced that the Former Yugoslav Republic of Macedonia was added to the DXCC Countries List. Contacts with this country dated September 8, 1991 or after will count for DXCC. Also the Czech and Slovak Republics were added to the DXCC list and the old Czechoslovakia was deleted. Contacts made with these countries on January 1, 1993 or after will count for these countries. The Czech Republic is using OK, OL and the Slovak Republic is using OM. The DXCC Desk will accept cards for these countries on June 1, 1993 or after. **PLEASE DO NOT SEND CARDS BEFORE THIS DATE.**

#### **UPCOMING DX CONTESTS**

CQ WW WPX CW Contest	May 29-30
ANARTS WW RTTY Contest	June 12-13
All Asian CW DX Contest	June 19-20

#### **TIDBITS**

Just returned from Dayton where there was a large DX program. The DX program at Dayton has over the years has become a major part of the Hamvention. About 600 attended the Friday evening DX dinner sponsored by the Southwest Ohio DX Association at the Stoffer's Hotel. After the dinner and presentations, a number of hospitality suites were open in the hotel for those interested in DX and contesting. The DX program at HARA Arena ran about four hours. I would guess that there were about 800 at the forum at its peak. Y58IO and Y31XO were there passing out QSL cards from their latest Pacific DXpedition to FW, T21 and H44. Also some of the P5RS7 QSLs were there to be picked up. Many well known DXers from all over the world were at the Hamvention. The Hungarians were there with their bus that is on a world tour.



## Silent Key

LYNN C. WILSON, K4DHB

Mr. Lynn C. Wilson, K4DHB (Dandy Home Brew), age 79, died April 12th. Lynn was an avid amateur radio operator most of his life. He was also an active member of the Alexandria Radio Club in Virginia for more than two decades, and he served as the City of Alexandria Amateur Radio Emergency Coordinator during the 1970's. From 1979 until his death in 1993, Lynn also served as Secretary-Treasurer of the Morse Telegraph Club of America, Washington, D.C. Chapter.

K4DHB said that he made many lifelong friendships through amateur radio. "A friend is somebody that knows all about you and still likes you," he joked. Lynn commented that, "I'm glad that I was born when I was," marveling at the progress that had been made in electronics communications during his lifetime 1913-1993. Lynn passed the torch of amateur radio enthusiasm along to his son Jim, K4BAV, and to his grandson Matt, KD4COA. Lynn was laid to rest on April 15th with a telegraph key held firmly in his hands and with the Auto-Call and QST magazines at his side.

Submitted by Jim Wilson, K4BAV

Charles W. Henry, WA3TVV - Became a Silent Key on May 10, from Cancer. Charles was 70 years old. Charles was retired from the Voice of America where He was a Studio Maintenance Technician. He was an Air Force Veteran during WWII.

Submitted by W3BA

### CALL CAPS

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# A Trip to Paradise

by Joe Saunders, K3UAL  
Member, Capital City Amateur Radio Society

On February 6th, 1993, snow was over the area as US Air Flight 954 left Baltimore Washington International Airport for San Juan Puerto Rico. The plane sailed into the clouds and soon reached its 36,000-foot cruising altitude. After three short hours, my wife Jeanne and I reached San Juan International Airport on Puerto Rico, the "Star of the Caribbean." That night, we sailed on the MV Horizon for the island of Martinique. Our itinerary would take us to Martinique, Barbados, St. Lucia, Antigua, St. Thomas, and then back to San Juan. Although planned as a vacation and not a DXpedition, you can see how easy it is for you to hook up with other hams at your vacation locations.

On St. Lucia, we visited with Rosemond, J69BB and with friends of Andrew Peter, W3/J6LNI. On Antigua, we were introduced to the staff of the Radio Shack store owned by John Cimino, V21GC. We had lunch at one of Antigua's best restaurant. Jeannie and I enjoyed this island in the sun the most. On to St. Thomas.

I had my HT along and at sea the next day, from 20 miles out, I was able to bring up the 146.810 repeater in Charlotte Amalie and contact my friend Klaus Willems, KP20. For the previous two months, Klaus and I have had a daily schedule on 15 meters in the afternoon. Klaus is a fellow member of the Coast Guard Auxiliary, Flotilla 2, Division 16, District VII. The flotilla has various boats, including a 28 ft. power boat owned by Klaus. He is very active in the Auxiliary, averaging 400 to 700 hours a year on patrol. He is the QE and a past Vice Commander. Our next trip to St. Thomas will be planned so we can participate in a Coast Guard patrol with Klaus.

Charlotte Amalie is now home for Klaus and his family and when we arrived, he met us at the pier. In 1971, Klaus and his family sailed down through the Florida Keys, Bahamas, Puerto Rico, and finally to St. Thomas. They spent six years on the water sailing around the Virgin Islands till they finally purchased a house on St. Thomas. Their beautiful spread is on Ruport Rock, the point you see near the Frenchmans Reef Hotel as you sail into Charlotte Amalie harbor. We were shown real Caribbean hospitality by Klaus and his family.

We sailed for San Juan on February 12th for a smooth overnight trip. We spent the next morning on a shore excursion of Old Town and New Town San Juan, including the famous ports of El Morro and San Christobal. Due to the short time available, we were not successful in meeting any of the hams on the island. The flight back to BWI was with the same Captain and crew that we had on the flight down. All went well and at 6:15 PM on Saturday the 13th, we landed back in the cold northeast.

We are definitely going back for our planned Coast Guard patrol with Klaus. We also hope to return to Antigua soon and I plan to take some HF gear along, get my reciprocal license, and operate as DX for a week. Just remember: your ham privileges can add a lot to a family vacation.

Happy sailing de K3UAL.



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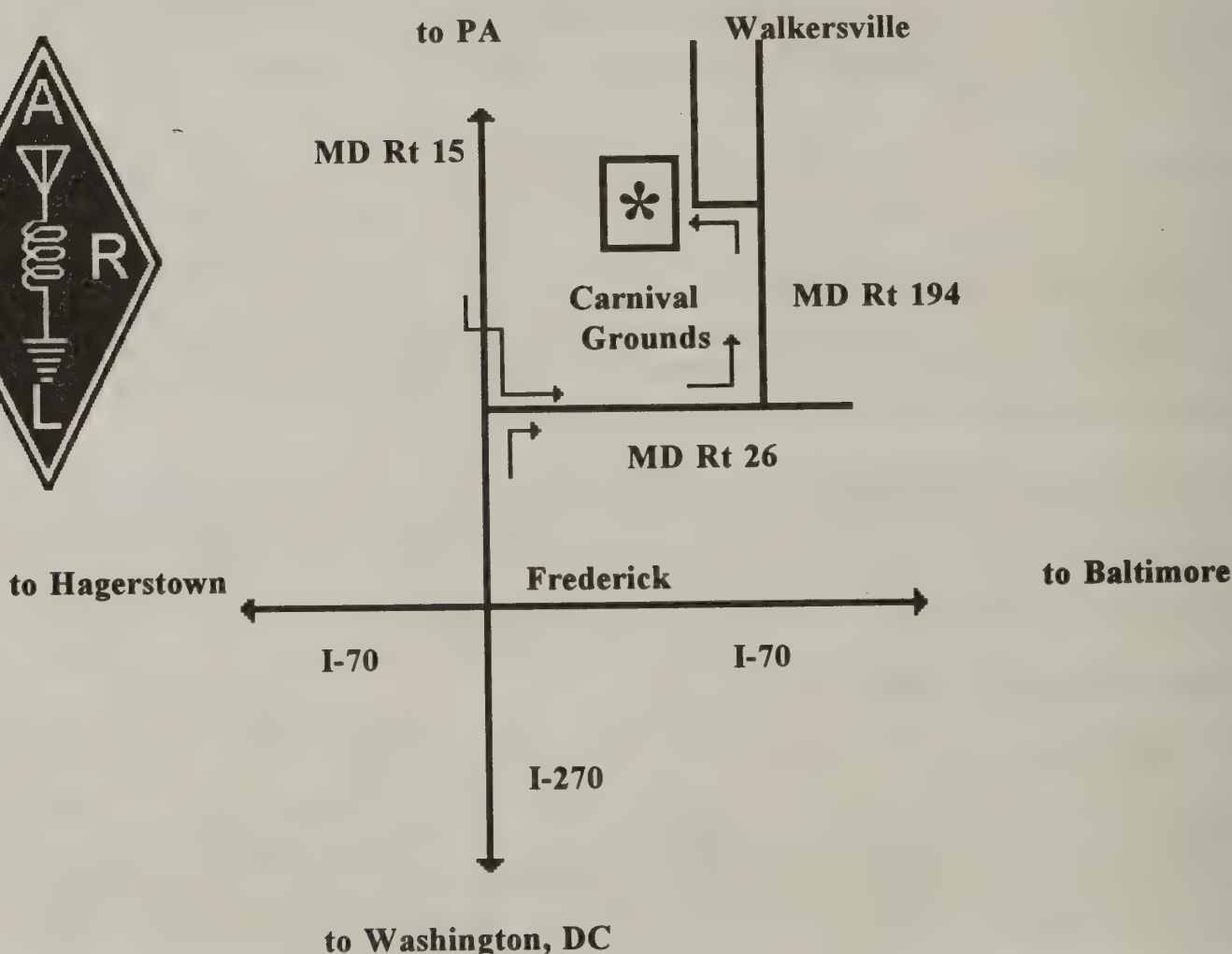
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# MOTHER NATURE'S REVENGE

**APRIL FOOLS SURPRISE!** Mother Nature provided a nice April Fool's Day greeting for the National Capital Area. Many locations reported hail and one report from Maryland was for baseball sized hail. There was a spectacular lightening fireworks show at times reminiscent of a World War II movie. SKYWARN was activated at approximately 2:00 PM and severe weather continued for the next eight hours.

Net control at the NWS in Sterling was handled by KD4DGQ, KD4IIW, and KC4OCG. Remote net control was handled by KC4YGB, N80DZ, WA2RPX, and KA3ZCI. Reports of severe weather received through the SKYWARN network were immediately integrated with NWS technology, such as Doppler radar, and provided a basis for some of the warnings issued during the storm.

The subnets did an outstanding job in reporting the initial severity of the storm thereby giving critical lead time to get warnings posted. Thanks to the entire SKYWARN system for another job well done.

**REAL TORNADOES!** As if tax day was not enough excitement for mid April, the National Capital Area was under a tornado watch for most of April 16, 1993. SKYWARN was activated at 7:00 AM for a tornado watch affecting a portion of western Virginia. As the day progressed, the National Severe Storms Forecast Center in Kansas City, MO extended the tornado watch area northeast. By mid morning severe thunderstorms were moving into Northern Virginia and Maryland. Numerous reports were taken by the SKYWARN amateur radio net. At approximately 10:30 AM Wes WA4TSC, the licensee of the 147.300 repeater used for SKYWARN, reported over the repeater that it appeared that a tornado touched down in Paris, VA and caused significant damage to a house on the hillside. This tornado was confirmed by NWS later in the day and was reported on the evening news. Fortunately no injuries were reported.

Preplanning became very important during this activation. Near midday the 147.300 repeater began to experience technical difficulties. The backup repeater plan was instituted for only the second time in two years. The main SKYWARN net was run on the Northern Virginia FM Associa-

tion 146.910- W4XG repeater in Tysons Corner, VA with the northwestern "co-main" net being run on the Shenandoah Valley ARC 146.820- W4RKC repeater in Winchester, VA. Later in the evening, as the severe weather activity moved into the Hagerstown area, NWS Net Control also directly monitored 147.09 in Hagerstown on the radio normally used for packet. We simultaneously operated on three two meter repeaters. The amateur community was informed of the repeater changes by a message on all four NOAA weather radio stations (Manassas, Elkins, Hagerstown and Baltimore). KC4YGB continued to monitor 147.300 to advise stations of the change in repeaters. The net never missed a beat and the backup system worked very well. Much thanks to all the groups involved in supporting the repeaters. The net ran from 7 AM to 11 PM and numerous net control volunteers handled the net from the NWS including KD4DGQ, KB4VCV, KD4IIW, K4FHK, KB4IKU, and KD4DGO. Remote Net Control was handled by N80DZ, WA2RPX, N0AA, N0KYZ, NF3X, KC4YGB, W3MMC and KD4KCT. As always, the subnets did an outstanding job of relaying reports from the areas on the perimeter of the warning area. Harrisonburg and Charlottesville were active until the early afternoon when the storms cleared these areas. The Northern Shenandoah and Hagerstown subnets were active from mid morning until the net closed. Tornadoes are always frightening, especially after sunset. The reports in the evening were especially needed and welcome. Thanks again to all who participated in the net.

## SKYWARN TRAINING SCHEDULE

### • BASIC I CLASSES

June 14 Monday 7-10 PM Fredericksburg, VA  
June 17 Thursday 7-10 PM NWS Sterling, VA  
June 22 Tuesday 7-10 PM Columbia, MD  
July 6 Tuesday 7-10 PM NWS Sterling, VA  
July 10 Saturday 9 AM - Noon Winchester, VA  
July 24 Saturday (TBA) Cumberland, MD  
Anne Arundel County (Annapolis Area (TBA)

### • BASICS II CLASSES (Basics I is a prerequisite)

July 10 Saturday 1:30-4PM Winchester, VA  
• HURRICANE CLASS July 28 Wednesday  
7-9:30 PM NWS Sterling, VA



# THE FOX IS CAUGHT!

Ten separate teams of hunters and/or individual hunters "found the fox" during the hidden transmitter hunt on Sunday afternoon, May 2nd. Over twenty stations checked in during the course of the hunt, some were participants in the hunt while others were checking in just to say hello or offer comments regarding the progress of the hunt. The winner of the hunt was Lyn, N3OQG. Len lives near Fort Armistead park, where the fox was hiding; so he was not fooled by the odd propagation conditions. (The two story underground concrete bunker of the fort, along with nearby factories and "mountains" of stored sand and gravel tended to direct the fox's signals away from land, across the water toward Essex and Dundalk.) This was Len's first transmitter hunt, and he found the fox using only a mobile mount 5/9 wave whip and a receiver. Len unintentionally added to the merriment by stating, 40 minutes into the hunt, "Well, I'm at Fort Armistead, and the fox is not here!" it took him nearly another twenty minutes to realize that I was indeed there, just over the hill and behind some trees, hi hi.

The winner was very closely followed (they arrived about three minutes later) by a team of hunters from the Free State Amateur Radio Club at Fort Meade. Team members Craig (WA3TID), Bill (N3DCI), and Robbie (WG3R) spent the remainder of the afternoon enjoying the scenery, exploring the park, and providing entertainment by running in circles around their van with an HT in hand (transmitting) while other participants oohed and aahed over their doppler display which tracked the moving HT with a moving circle of indicator lights. Note: the Free State club call sign is K3IVO ... rather appropriate for a team hunting N3IVO (the fox).

Third place was taken by Mel, N3CEG, who drove up with his son Michael and another relative, Dale, waving a beam and a loop antenna out of the car windows. For the remainder of the afternoon, team after team (sorry, too numerous to list here) drove up to compare notes, look at equipment, and share transmitter hunt lore. The performance of the hunters was not necessarily dictated by the sophistication of their equipment.

At least three participants using no directional equipment at all (just omnidirectional mobile whips and receivers) did as well as teams with directional beam antennas. And one fellow arrived sixth in line, despite having a doppler system, a EPS (global positioning satellite) unit, and a packet set-up in his car. (The doppler system had been in storage until a half an hour after the hunt started ...better luck next time!)

Honorable mention goes to Tom Hall, a brand new member of BARC. Tom just recently passed the amateur radio licensing examination, and has not yet received his "ticket" in the mail. He took some bearings with his HT and a beam, and came out to find me. Toward the end of the afternoon, I announced on the air that most of the participants who had checked in at the start of the hunt had already found me, then I called several times for additional hunters to please check in, with the intention of ending the hunt if there was insufficient response. Tom displayed extraordinary patience, restraint, and persistence, given the fact that he was still out there trying to find me but he was not allowed to call and say so ... since he didn't have a license yet! Fortunately he drove up and joined the crowd before the party was over. He promptly handed his shiny new HT to another ham because he wanted to hear it transmit (yes, we verified that it works just as well on transmit as it did on receive). That's right, folks ... you don't need a license to participate in transmitter hunts, you just need the ability to receive the fox's signals.

Congratulations and thanks to everyone who came out For the hunt. If you would like to join in the fun next time, call the Watson line: (410) HAM-TALK and check option 2, sub-option 1. (Menu choices: Current/special events; then transmitter hunts ... or something like that.) The date and time of the next hunt will be posted there. The hunts are generally held on Sunday afternoons, on the repeater frequencies. (The fox transmits on 146.070 MHz; and you can listen on 146.170 MHz.) Happy hunting!

Rosie, (N3IVO)



The Foundation For Amateur Radio, Inc. ®  
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**1993**



**SUNDAY, SEPTEMBER 12, 1993**

**Montgomery County Agricultural Center (Fairgrounds)  
Gaithersburg, Maryland  
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"THE ONLY PLACE TO BE SEPTEMBER 12th"**



## Capital City Amateur Radio Society

- Meetings: 3rd Saturday of the month at 12 Noon (except July & August). Woodridge Public Library, 18th & Rhode Island Ave. NE, Washington, DC
- Repeater: 145.11/144.51 MHz in NE Washington, DC. Auto-patch membership available.
- Weekly Nets: Computer Net: Monday at 8 PM on the repeater, Packet Net: Tuesday at 8 PM on 145.53 MHz, On-Air Meeting: Wednesday at 8 PM on the repeater, RTTY Net: Thursday at 9 PM on the repeater (All amateurs are welcome to join in on any of these nets).
- Information: Chester R. Martin, W3EIL, (202) 529-9598 1719 Franklin St. NE, Washington, DC 20018
- Training: Plater Campbell, N3DZQ, (202) 544-7810

On April 17, 1993, CCARS members elected the following as officers:

- President: Clem Williams, K3UAM
- Vice President: Don Reed, N3JFX
- Secretary: Chester Martin, W3EIL
- Treasurer: Harold "Ham" Hammock, N3DTZ

## CCARS Emergency Auto-Patch Access Numbers

The following emergency auto-patch numbers for the CCARS 145.11 repeater are published as a public service. Please remember to use proper procedures when using these numbers. Identify yourself as an amateur radio operator; give your information clearly and concisely; let the emergency service know that you are using an auto-patch and that both parties cannot talk at the same time; be clear in giving any directions. NOTE: several of the numbers are for ALL services; when the operator answers, describe what service you need. DO NOT start giving other information until you are requested to do so; the dispatcher will route your call to the appropriate service. Use

the pound sign ("#") when you are finished to disconnect the auto-patch.

- 9110 - District of Columbia Police
- 9111 - U.S. Park Police
- 9112 - Prince Georges County (all services)
- 9113 - Montgomery County (all services)
- 9114 - Fairfax County (all services)
- 9115 - Arlington County (all services)
- 9116 - Alexandria City Police
- 9117 - Maryland State Police
- 9118 - Virginia State Police
- 9119 - District of Columbia Fire Department

## The Springfield Estates Elementary School Amateur Radio Club (SEESARC)

- Meetings: First Friday of every month at 7:30 PM, Springfield Estates Elementary School, Room 2, 6200 Charles Goff Drive, Springfield, VA
- President: Ben Mudrak, KD4CNV 703 971-7710
- Vice President: Will Schmitt, KD4CNX 703 768-5709
- Secretary: Luke Ward, KO4IQ 703 922-6545 Treasurer: Richelle Brown, KD4MFB 703 690-0129
- Comp. Conf.: Conference 4 on Dos Spitzen Sparken BBS, 703 791-6198
- Mailing: SEESARC, 6200 Charles Goff Drive, Springfield, VA 22150

Things have been going well at SEESARC once again. At the last club meeting Loyd Davis K8EI spoke to us about all sorts of packet gadgets. We learned about nodes, node stacks, packet forwarding, and the fact that perforations do not necessarily make computer paper easier to tear (actually I've noticed that before). So now I know everything about packet, right? Now that I know all that I won't have to study packet anymore (FAT CHANCE)!

Now that the Novice classes at the club are wrapping up, I just want to pose a question to the general ham public: Why would anyone be crazy

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## Prince George's Wireless Assn.

- Meetings: First working Tuesday of each month, 7:30 p.m. American Red Cross Service Building, 6206 Belcrest Road, Hyattsville, MD 20782
- Club Station: K3CEZ
- Mailing: 4100 Kennedy Street, Hyattville, Md 20781
- Information: Frank Holton - WA3ZMW (301) 927-1245

PGWA will hold it's regular monthly meeting on Tuesday May 4, 1993. Frank, WA3ZMW plans to show an ARRL video tape on the old "Spark Gap" days of transmitting. The Club plans to acquire more tapes in the future to make the meetings more interesting.

On May 16, 1993, Club members will participate in the 13th annual "CROP Hunger Walk" as communicators. This is a Church and Civic group sponsored Walk and Run to gather funds to support the fight against hunger throughout the World. In the past 12 years nearly \$226,000 has been raised by Churches for this worthy cause. The Runners and Walkes are paid so much per mile by sponsors and the funds go to nine pantries around the country to supply food.

The event will take place at 1:30 p.m. on Sunday May 16th at the Hyattsville First United Methodist Church located on Belcrest and Queens Chapel Roads in Hyattsville, MD. Everyone is invited to either sponsor or sign up to participate in the Walk or Run. The Walk is 5 Kilometers and the Run is 11 Kilometers. Plenty of parking and refreshments will be available.

PGWA is also making plans for "Field Day" exercises again this year. June 26 and 27th are the dates for Field Day. Like last year, we will operate two HF rigs on portable generator power. Last year we set up operations in a grassy picnic area of the parking lot behind the Red Cross Building. WA3ZMW / Frank, W3SWD / Dan, KA3COT/Charles and N3HLY/Ken will be making plans, other members and guests welcomed.

The winds and the winter snow storm, that we had, posed a small problem with the mast of our Cushcraft A3S beam that we installed this past fall. The mast is held by rachet tpye chimney straps on the roof of the Red Cross Building. The wind driving against the beam and tailtwister rotator had moved the mast a few degrees out of perpendicular. WA3ZMW and N3HLY were able to correct the situation by prying up on the mast, placing a block beneath it and taking up a few turns on the rachet straps.

KA3COT/Charles had been in the hospital back in March and we understand he is recuperating back at his home QTH. Charles has been our Club technician for many years and we would like to give him our best and hope to see him soon. W3SWD/Dan is visiting a duaghter in Oregon and we wish him a safe return. We are looking forward to a good turnout of members at the May 4th meeting.

73's to all and thanks to Ethel/K4LMB for all the Years as Editor of AUTO-CALL and we welcome Doug Allen/N3FHM as the new Editor.

Ken Easton, N3HLY

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## Frederick Amateur Radio Club

### HAMFEST (Maryland)

The Frederick Amatuer Radio Club will hold its Annual Hamfest on Father's Day, June 20, 1993 at the Walkersville Firemen's Carnival Grounds.

- Hours: 8 a.m. to 4 p.m.
- Admission: \$5.00
- Tailgaters: \$5.00 for each 10ft.space
- Non-Ham Wives & Children Free with one paid admission.
- Exhibitor indoor tables: \$10.00
- Talk-in: 147.06/ + , 146.52, and 448.425/-

For additional information write:  
Frederick Hamfest  
P.O. Box 1260  
Frederick, Maryland 21702



## AMSAT

### The Radio Amateur Satellite Corporation

- Meetings: Semi-annual - January and July
- Local Net: Sunday at 9:00 p.m. on 146.835 MHz. FM, W3ZM/R, Greenbelt, MD
- Information: Pat Kilroy - WD8LAQ (301) 249-3396 or on packet WD8LAQ @ WB3V.MD

## SPARTAN OPPORTUNITY

Wanna build a "weather balloon" class amateur radio experiment and let it sail on a two-day space ride? The AMSAT group in the local Washington, D.C. area might have such an opportunity!

As announced last month in this column, engineers at the NASA/Goddard Space Flight Center in Greenbelt, Maryland are discussing with local AMSAT representatives about us using a compartment aboard a future SPARTAN spacecraft "rent free."

SPARTAN is a self-contained space shuttle secondary payload. It is released by the shuttle remote manipulator system to fly free of the shuttle for 24 to 48 hours, and then picked up and returned to Earth. All SPARTAN spacecraft to date, including the one which recently flew on STS-56, have recorded their data on magnetic tape for analysis after landing, thus they require no intervention from the shuttle crew except for delivery to orbit and pickup. SPARTAN normally carries no radio equipment except for radar corner reflectors to facilitate rendezvous and grapple. The purpose of SPARTAN is to allow small, cheap experiments of the type that normally fly on high altitude balloons or sounding rockets to be operated for several days in low earth orbit. By flying free of the space shuttle, SPARTAN is free to control its attitude independently of the orbiter as required by its experiment payload.

**CHOICES:** Due to the short duration of the flight, it seems unlikely that the usual communications transponders that make up the primary payload of most amateur satellites will be useful. Nobody knows how many hams would be interested in packet radio contacts with a SPARTAN

satellite, although there may be some who would be interested in exchanging packet messages in return for a suitably nice certificate. The flight seems to be better suited to technology demonstrations and development to support other amateur space projects.

**A CHALLENGE:** The SPARTAN design review will occur this summer, most likely July, with hardware build-up in March 1994, and flight sometime in the first half of 1995.

**POSSIBILITIES:** If it flies on a 57-degree mission there would be plenty of passes over North America. For a 28-degree mission the opportunities are somewhat more limited. It appears that we would have a nice external antenna on the SPARTAN. If a SAREX payload were included on the same flight that would open up interesting possibilities.

**MORE POSSIBILITIES:** Perhaps we could "beta test" a piece of Phase 3-D hardware for AMSAT. Another interesting experiment would be to try to use AMSAT OSCAR - 13 or ARSENE to relay data to the ground, as was done on mission STS-61C in January 1986 from a GAS cannister to AO-13. This would require the cooperation of the other users of these satellites to allow the weak signals to be heard on the transponder. Or a test could be developed to evaluate different commercial and homebrew GPS receivers for use in attitude determination. Could we form and qualify a local satellite construction group in the Washington DC area, ready to take on this and other projects?

**FINANCIAL:** There would be no NASA funding for the amateur radio payload on SPARTAN. Since AMSAT's money is needed to support the Phase 3-D project, we are reluctant to request funds from AMSAT. It is necessary to consider how this project will in fact be funded if our scope is other than small and simple.

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## Maryland Mobileers AmateurRadioClub

- **MEETINGS:** The first Friday of every month at 7:30 p.m. The location is the Office of Emergency Management at Crownsville State Hospital. Talk in available on 146.805 Mhz or 449.125 Mhz.
- **REPEATERS:** WA3PJQ 146.805 and 449.125 Mhz
- **WEEKLY NET:** Mondays on 146.805 at 8:30 p.m.
- **ADDRESS:** M.M.A.R.C. P.O. Box 935 Severn, Md. 21144-0935

**ARMED FORCES DAY-May 15th** By the time you read this, if you were not there, you will have missed a great time aboard the U.S.S. Torsk in the Baltimore Harbor. The U.S.S. Torsk is a WW II submarine where the club operates two HF and one VHF stations each year. I'm sure we will have made hundreds of contacts around the world, based on the well run preparations. Last year we made contact with a former crewmember of the Torsk and he sent us copies of some of the logs he kept during WW II. A thanks to John/N3BTM, and all the participants who helped out on May 15th.

**FIELD DAY:** Time to get out those batteries and generators again. The Mobileers will once again set up base at Downs Memorial Park the weekend of June 26-27. Bob/WO3B is the talented organizer this year and is still looking for all the help he can get. There will be everything from QRP to TV if all goes as planned. So come on out and join in the fun or just stop by to visit. Downs Memorial Park is right on the Chesapeake Bay at the end of Mountain Road before Gibson Island. There is a nice trail and a beach for fishing, so stop by and bring a picnic lunch. (However, if you do bring a picnic lunch, just remember this is the club that has a hard time passing any eating establishments, so keep an eye on your baskets!).

Bruce-N3BWF

**Send Your Club Column To  
AUTO-CALL!**

## Mt. Vernon Amateur Radio Club

- **Meetings:** Second Thursday of Each Month, 7:30 p.m. (except December) Mt. Vernon Governmental Center, 2511 Parkers Ln., Alexandria
- **Repeater:** WD4PDP/R 146.055 input 146.655 output Nets: Every Tuesday at 8:00 pm (0100 UTC Wednesday's) Starts on 2-meter then moves to 10-meter on 28.405
- **Information:** John-KI4HK (703) 780-2882 or Mike-KE4ER (703) 780-8028
- **Training Classes:** John Forrest-WZ4A (703) 971-3905
- **Mailing Address:** c/o Frank Mackey-N4GUS, 8072 Athena St., Springfield, VA 22153

**MANY THANKS** to J. Bixby WA3WQF for his excellent talk at our April meeting. He is an expert in protecting your equipment from lightning damage and his presentation was both instructive and entertaining. **THANKS** again!

We had the pleasure of **WELCOMING** these visitors in April - Chris Harrison, James Dutton, and Karen Vasilas. We appreciate your coming to our meeting and hope to see you again. We also have some new members - Paul Miller KD4ZLJ, Stanley Sulak KD4YEP and Lillian Vasilas N4NNS. **WELCOME TO ALL** of you and thanks for joining our club.

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### AMSAT Continued from page 34

**WHAT'S NEXT:** Dan Schultz-N8FGV is leading a set of meetings in Greenbelt to identify our options, accept experiment proposals, discuss terms with the SPARTAN project, and find dedicated builder volunteers. Contact Dan or me if you'd like to work on this grand opportunity!

73, Pat Kilroy-WD8LAQ

P.S. Thank you to Dan Schultz-N8FGV for supplying most of the material in this month's Auto-Call column.



## Washington Metropolitan Area IBM Amateur Radio Club

- Meetings: First Tuesday of the month that is a work day, 5:45 p.m. - 7:00 p.m.
- Next Meeting: NO MEETING ON TUESDAY JUNE 1. (See "Hungry Hams" note below)
- Chat Node: Second Wednesday of each month, 5:00 p.m. on 146.520
- Packet: 145.610 MHz., running TCP/IP Netcode (WA3YHE-1)
- Information: Erinn Tordella - N3HSA (301) 240-6200, The Radio Room (301) 240-6877

Spring 1993 was "event-laden" for the WMA/IBM Amateur Radio Association (ARA)! For openers, several of our busy members volunteered their services at a couple of local Public Service outings. Concurrently, the Club's 2-meter ICOM rig was put into "intensive care" by Roel-N3FJJ (for parts replacement) at the home/shop QTH of a retired IBMer, Jim-KA3LPC up in Walkersville; best of all, the IBM Club not only has approved the ARA's funding request for installation of a new Cushcraft R7 Antenna, but also, the IBM Club has provided us with the funding mechanism (read: 'check') to acquire the hardware! In between, Frank WA3YHE and Erinn-N3HSA presented the Management Committee of the IBM Club with a preliminary "Antenna Installation Plan", which from all outward appearances has been tentatively approved, pending the final document. Not surprisingly, a few "terms and conditions" need to be clarified (e.g., a minor detail related to Main Site roof access). Just as soon as the Club President has met certain proposal delivery deadlines, these issues will be addressed.

The WMA/IBM ARA would again like to thank Joe-K3LLL, former WMA/IBM ARA President for sharing his thoughts with us at our April 6 meeting and also for working with ARRL on the question of re-instating the Club's lapsed affiliation with the League.

Our best wishes for a swift and complete recovery are extended to Bob-N1NMA, our Club Secretary for the WMA/IBM ARA. Bob broke

both his arms in an April biking accident, but at last report, was "on the mend" and despite his obvious painful injury, Bob appeared to be his usual, good-natured self....

Well, you asked for it; you got it: the WMA/IBM "Hungry Hams" Saturday morning Breakfast meeting is hereby officially announced for June 5! More particularly, here are the particulars:

- WHAT : "HUNGRY HAMS" MEETING
- WHEN : SATURDAY, JUNE 5, 1993  
09:15L to 11:00L
- WHERE : SHONEY's (formerly 'Bob's Big Boy') Route 355, Gaithersburg, MD Gaitherstowne Plaza Shopping Ctr.
- WHO : Y-O-U!!!
- WHY : 'Cause We're 'Hungry Hams', that's Why
- If you have questions or clarifications, please direct them to Frank Pinkl-WA3YHE at 240-8409; or via packet: 145.610 MHz @ WA3YHE-1.
- If you like this idea, please thank Jim Locke-W6NRJ, who suggested it in the first place!

'73, Erinn--N3HSA

**DON'T FORGET OUR DEADLINE IS  
THE 5th OF THE MONTH PRIOR TO THE  
MONTH OF PUBLICATION.**





## Montgomery Amateur Radio Club

- Meetings: 1st and 3rd Wednesdays of each month at 7:30 p.m. Executive Office Bldg. Montgomery Co. Government Center, 101 Monroe St., Rockville, MD. Park underground on G-2.
- Repeater: 146.355 in (Rockville & German town)/146.955 out (Rockville)
- Mailing: M.A.R.C., P.O. Box 611, Gaithersburg, Maryland 20884-0611
- Information: Jeff Horlick-KZ3F (301)258-0112; Steve Todd-K2IYQ (301)253-4172

And the Montgomery Amateur Radio Club (M.A.R.C.) beat goes on--the Public Service beat that is; without missing a beat (following RACES' successful implementation of the County's Emergency Transportation System {ETS} during the "Blizzard of '93"), M.A.R.C. members again participated in back-to-back Public Service Events. Your Reporter has deferred until now detailing M.A.R.C.'s participation in "Health and Welfare" communications for the M.A.R.C.-supported Fritzbe's 10K Rockville Race (3/28) and M.A.R.C.'s informal participation in the MS Super Cities Walkathon (3/27), to accommodate AUTO-CALL space constraints.

Though not formally sponsored by the Club, the M.S. Super Cities Walkathon Public Service Event was supported to a large degree by M.A.R.C. members (some of whom followed up the next day with the Fritzbe's Run!). Coordinated with military-like precision by M.A.R.C. member (and R.A.C.E.S data base chairman) Rob-N3HQX, the scope of this Public Service Event included raising funds for multiple sclerosis by walking 'X' number of miles along either a "Northern" (Maryland) or "Southern" (Virginia) route of one's choice. This event will most likely be remembered for two things: the miserable wet, chilly weather (causing many participants to request SAG vehicles to pick them up early) and the quaint, historic venue names used to denote "tactical" call signs. How often in the course of our checkered Public Service "careers", do we get the opportunity to call Net Control from such vantage points as Old Angler's Inn,

Iwo Jima, Fletcher's Boat House, or (I kid you not), "Cooley's Fruit Stand"? When it was over, the M.S. Society event coordinator (Heather Shannon) stated unequivocally that this was the "best ever communications" in the history of the Super Cities Walkathon...A recitation of the roster of volunteers who helped make this event a success reads (almost) like a page from the 1993 M.A.R.C. directory: Rob-N3HQX, Mark-N4EOC, Irv-N3LDY, Charlie-WA3HNN, John-N3NFY, Matt-N3LFZ, Noah-KA3VYN, Bill-W3WON, Dave-N3NTX, Steve-N3NTY, Tom-N3LGF, Mike-N3NYT, Bob-N1NMA, WB3DPN, Don-WA3WOD, Paulo-N3MGA, Stan-W3INK, Hani-N3IWM, Jim-N3CCL, Rip-KC3H, Nick-N3OAO, Fabian-N3LDH, Dave-WA3ZOR, David-N2BJK, Ira-N3JOQ, John-KA3USB, Bob-NK3I, and Erinn-N3HSA. P.S. Of note is the fact that both VHF (146.46 MHz) and UHF (444.1 MHz) frequencies were used to support communications at the rest stop locations and with the SAG vehicles; respectively.

Dawning of the next day (March 28) meant even MORE rain for the official kickoff of M.A.R.C.'s Public Service season--that ever popular Fritzbe's 10K Race! Coordinated brilliantly once again this year by Ron-W3GIS, the event went off like clockwork (as rain continued to pelt the volunteers), thanks to the support of the following M.A.R.C. participants: (Please note that the asterisked (\*) names represent Radio Amateurs who volunteered for both the M.S. Walkathon event and the Fritzbe's Race event.) Ron-W3GIS, Don-KA3CTR, Ross-K3USO, Tom-KK3A, John-N3NFY(\*), Dick-WB3AAO, Stan-W3INK(\*), Bill-W3WON(\*) Dave-WA3ZOR(\*), Steve-N3NTY(\*), Bob-WK3C, Dick-W3DLP, John-W3QF, Irv-N3LDY(\*), Charlie-WA3NNN(\*), and Erinn-N3HSA(\*)

Following the business meeting of April 7, the Club's President, Al-NW2M gave an "overhead" presentation on the history and nomenclature of the IBM-compatible Personal Computer--from its inception during the early 8086 days up to the current fanfare surrounding the Pentium (586) announcement. Thanks for a job well done, Al!

Erinn - N3HSA



## FOREIGN SERVICE HAMS HOLD ANNUAL BANQUET

Walt La Fleur, W3EVD, was the keynote speaker at the 14th Annual Foreign Service Amateur Radio Banquet, held at the Fort Myer Officers Club, Arlington, Virginia, on 5 May 1993. The banquet is sponsored jointly by the Department of State Amateur Radio Club (W3DOS) and the Voice of America Amateur Radio Club (K3VOA).

President Tom Warren, K3TW, of the State Department club, called on the two ARRL representatives present -- Perry Williams, W1UED, and Paul Rinaldo, W4RI, for updates on League activities at the national and international levels. Among the issues they discussed were a congressional resolution calling for U.S. Government support for amateur radio, and past and future action by the ARRL and IARU to defend and advance amateur interests at international radio conferences.

Dexter Anderson, W4KM, of the VOA club then introduced the main speaker, Walt La Fleur, W3EVD, who has been active both in the VOA club and in the Foreign Service Net. (The FSN meets every Sunday, usually with John Swafford, W4HU, as net control at W3DOS, for the purpose of linking up U.S. Foreign Service amateurs overseas with each other and with their active and retired counterparts in the United States.)

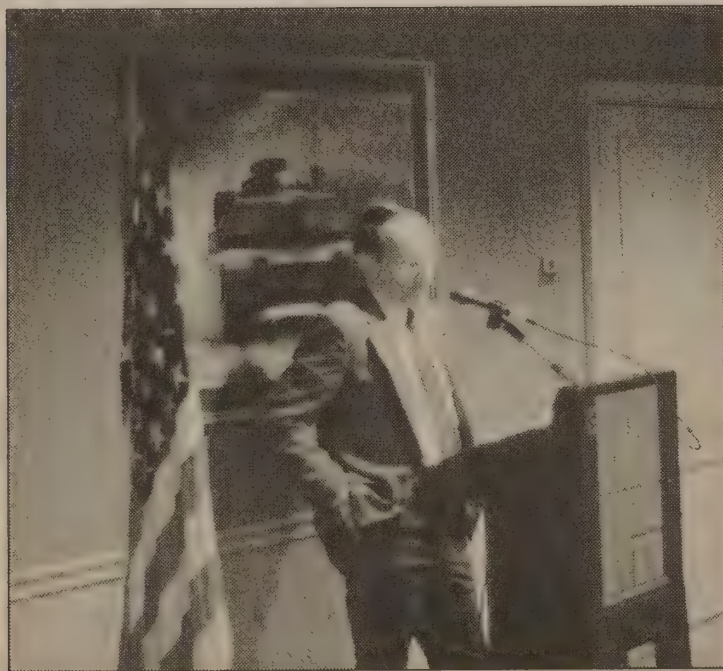
Walt La Fleur is about to retire to his native state of New Mexico after 9 years with VOA (the last 4 as Director of

Engineering) and 24 with NASA. Many hams may not realize that the photo they saw in QST and Auto-Call of Walt receiving the Distinguished Executive Award from President Bush last year was taken by his wife Mary with an ordinary camera; apparently the photos taken professionally did not turn out.

Walt held the callsigns KN5LWN and K5LWN in New Mexico in 1957 - 1958, operated under K5LWN/VP9 and VP9FZ while NASA Tracking Station Manager in Bermuda in 1961 - 1967, and has held W3EVD since 1967. Drawing on his experiences during crucial periods at NASA and VOA, he delivered a highly informative, interesting, and entertaining talk.

This year's banquet was attended by 28 members and guests: Dexter Anderson, W4KM, Jim & Karla Bennett, KM4P, Patrick Benson, KØOO, Jim & Jual Brown, W5DRP, Tom & Jane Dorset, WB4J & KG3R, Warren Frayne, WD4IZM, Walt & Bella Ireland, WB7CSL, Walt La Fleur, W3EVD, Fred & Somporn Laun, K3ZO, John Nagley, K4AHS, Bruce Prior, AA3DK, Paul & Mary Anne Rinaldo, W4RI, Philip Savitz, WA3GLA, Charles Signer, WA9INK, Tucker Stewart, NØMCL, John Swafford, W4HU, Ralph & Grace Taylor, W3CBG, Tom Warren, K3TW, Perry Williams, W1UED, and John & Kathy Wood, WA5IPQ.

Dexter Anderson, W4KM



Walt La Fleur, W3EVD, giving keynote speech at the 14th Annual Foreign Service Amateur Radio Banquet, Fort Myer Officers Club, May 5, 1993.



Walt La Fleur, W3EVD - Warren Frayne, WD4IZM, - Tucker Stewart, NØMCL, ("Mountain Climbing Lady") enjoy some good conversation over a cup of coffee.



## **Arlington Amateur Radio Club**

- Meetings: Third Tuesday of each month at 7:30 p.m. Arlington Red Cross Chapter House, 4333 Arlington Blvd. (Rte. 50)
- Net: Tuesdays (except meeting nights) at 7:30 p.m. on 144.87/145.47 MHz FM
- Info: Mike Callahan-NW3V (703) 241-5618

### **THE APRIL MEETING**

The April meeting was called to order at 1935 by Mike NW3V. The treasurer's report as presented by Tom (W4LMW) was approved as were the minutes of the March meeting as they appeared in the April issue of the Beacon.

There was a brief discussion of contest ethics after which Tom and Tom (W4LMW and N4BYF) reported on RFI tests that they had performed with the club station. They found that there was no interference to the building alarm system with less than 25 watts on the dipole on 40 and 75 meters and none to the alarms with 100 watts on the triband beam on 10, 15 and 20 meters. The building's computer controlled telephones seemed to pick up RF under all of the test conditions. Toms observed that the dipole is located adjacent the roof and parallel to many of the alarm and electrical wires running therethrough and that moving the dipole away from the roof by raising it and hanging it from a crossarm secured near the top of the tower that supports the beam might minimize the alarm interference on 40 and 75. Various suggestions were considered for the crossarm, and Tom recommended a length of angle iron with preformed holes that could be purchased from a hardware store. A motion was made and approved to authorize Toms to spend \$35 for the materials necessary to move the dipole. Jim (AB4YP) offered to donate new coax for the project and further suggested that the club purchase several RFI proof telephones for use by the Red Cross. Dennis (W4PWF) wondered if a low-pass filter should be installed on the transmitter, and Craig (N4EFJ) offered to contribute one (if he can find it).

Mike reported on research he had promised to conduct on the expense and features available

for contemporary packet TNCs that the club might purchase. New units range from \$50 for a plane Jane TNC to \$330 for a full-featured multi-mode processor, while a middle of the line used box might run about \$75. A heated conversation ensued about the need or desire for the club to acquire packet gear. In response to a motion by Tom (N4BYF), further discussion on this subject was tabled.

A brief demonstration was presented by Craig (N4EFJ) on the desirability and use of a variable (step) attenuator in radio direction finding.

The meeting adjourned about 2100.

Craig Church - N4EFJ

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## **Southern Maryland Amateur Radio Club**

- Meetings: 2nd Friday of each month at 7:30 p.m. Church of the Nativity, 5203 Manchester Dr., Temple Hills, Maryland.
- Nets: Tuesdays at 8:00 p.m. on 147.75/15 Repeater Thursdays at 8:00 p.m. on 28.447 USB
- Packet: WA3TAI full service PBBS in Ackokeek, MD 145.03 & 446.075, SMD (WA3TAI-5) NET/ROM Node in Ackokeek, MD 145.03
- Repeater: W3PT/R 147.75/15, Cheltenham, MD. Autopatch to 911
- Mailing: P.O. Box 273, Cheltenham, MD 20623
- Information: Vic & Linda Curtis, WA3YUV & KA3VNI (301) 888-1388

The SMARC public service guys were at it again in April. The Charles County March of Dimes Walk-a-thon for healthier babies attracted 483 walkers. Communications for the walk were handled by nine operators from the club. They were KB3ARI/KT (congrats!), N3KIP, N3MKR, N3DVD, KA3ZQY, N3MPS, N3EQL, KA3MVU, and KK4GV.

WA3YUV and KA3ZPA were also busy with public service. They set up an HF station, showed

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## Mt. Vernon *Continued from page 35*

It's official! The officers for 1993-94 are as follows:

President	Marci KM4VM
Vice President	Mindy WQ9Q
Treasurer	Frank N4GUS
Secretary	Glenn W4OCC

THANKS to the hams who helped at the George Washington Parkway 15k race - Tom N4BV, Paul KD4NMY, Bob KD4RNE, Mindy WQ9Q, Marci KM4VM, Frank N4GUS, Ed KC4EFJ, and Doug WA3WEP. Please forgive me if I left anyone out (and let me know!).

We are still testing on the second Saturday of every month at Lee District Park in Fairfax County. There is no charge and walk-in's are welcome. Pre-registration (and information) is available by calling Frank N4GUS at 703-455-1510. Also call Frank if you are interested in being a VE or helping at the exams (you don't have to be a VE to help out).

Need something to do for an hour or so and want to enjoy some great company at the same time? Join us for the folding party (preparing the newsletters for mailing). It doesn't take long and we have a good time. Check with Steve WB4EEA for the next one (703-780-7248).

An MVARCHistory Tidbit - MVARC's ARES net began in August 1979. It was coordinated by Don Ide WB4HYT, who also was the net control. Fraser Street WD4BAG took over net control in May 1980, Steve Schneider WB4EEA took it in early 1983 and currently John Bowen KI4HK is net control. I don't know of any others, but if you do, let me know so I can make the records more complete!

June's meeting - AH...Field Day is almost here and the June meeting, from what I hear, is going to be a good one. You'll have to see it to believe it - see you on June 11th!

Marci, KM4VM

## SEESARC

*Continued from page 40*

enough to try to get a novice license? (All right, we admit it - we WERE crazy enough to get novice licenses and we lived to tell about it!) I've also just been notified that 7 new people have been crazy enough or continued on the crazy path of hamhood. First GERRY, SALLY, and SAVANNA LYONS, who make the second entire family the club has graduated as Novices this year, along with BRIAN JOHNSON and JOSH BOWMAN who have also gotten their Novice licenses from the club's license class recently. DALE POPE passed his Technician exam and to round off this bunch of test passers STEVE JOHNSON passed his Advanced.

On May 1 our club participated in the Scouting Extravaganza, where scouts got an opportunity to witness a DX contact with Puerto Rico first hand. Otherwise our exhibit won 2nd place in the International category at the Extravaganza. OK, admit it, folks. You have old equipment you're just DYING to get rid of (yes, it's the painful truth). Working or not, the club could use a TNC (preferably a mailbox), some sort of antenna tuners, high impedance dynamic microphones, HF antennas, or anything else, including stuff that looks as if the last time it was used was to make a distress call from Fort McHenry during the War of 1812. We also have items (such as low pass filters) for swap. So if you're feeling generous, contact any of the officers at the top of the article, and we'll pick up your donation with many thanks.

SEESARC would also like to thank Mr. Handley Ward for his generous donation of equipment and parts.

If you're feeling curious on the first Friday of any given month, come on over to our meeting at the Springfield Estates Elementary School (off of Thomas Drive, which is off of Franconia Rd.) in Room 2 at 7:30 P.M. Guests are always welcome.

Daniel Keegan, KD4CNY



## Fauquier Amateur Radio Association

- Meetings: Second Tuesday of each month, 7:30 p.m. Local. Shadow Lawn Recreation Center, Warrenton, Virginia.
- Net: Every Wednesday night at 9:00 p.m. Local, 147.165 rprr.
- Packet: N4YXW-1 full service BBS in Warrenton, VA 145.090 MHz
- Chat Node: NET ROM compatible node :FARA 145.070 MHz Repeater: NZ4N/R 147.165 Mhz out; 147.765 Mhz in.
- Information: Neil-AB4YK. (703) 364-3861

In April, FARA welcomed three new members to its Association. They are Mike Trowbridge, KA4RRU, a transplant from Woodbridge, now living in Catlett, Mike McDonald, KD4RGW, a Warrenton resident, and Perry Olinger, KQ4HA, a Bealeton resident and graduate of one of Nelson Funkhouser's classes. A very warm welcome to them. We were pleased to have Mr Lee Worrell, Virginia Power's Electromagnetic Interference (EMI) expert from Richmond, address the April meeting. More than 20 local hams were treated to Mr. Worrell's exposition of the tricks of the trade in the field of EMI prevention, detection and cure. A good deal of thought these days goes in to prevention through the use of correct construction and installation techniques. In spite of the best laid plans, however, something goes wrong from time to time and RFI develops.

Refreshingly, Mr. Worrell's position is that in most cases, the problem is recognized as having an origination in the utility's system and that is where, most of the time, the cure is going to be. Mr. Worrell accepts that responsibility. Understandably, the majority of the Power Company's EMI control efforts are aimed at curing TV and domestic radio problems. An informal poll showed that several of the hams in the audience had previously had experienced EMI from power lines. Satisfaction with the response by the Power Company was mixed. Mr. Worrell explained that the basic role of his company was to provide light and power and that his EMI group was a loss center and in this day and age, his budget was very tight and his people could not do all that they

might want to do, or do it in a time frame that would necessarily satisfy everyone.

The recourse that hams have is first to the local district EMI representative, then progressively through the chain of command to head office (Mr. Worrell) and then to the FCC, your congressman and so on. One hopes that the problem would not be so intractable that it cannot be solved at the earlier levels. EMI problems are categorized as follows: Passive (e.g. TV ghost reflections from power lines or masts), Noise interference (e.g. from spark discharges), Electrostatic Discharges (e.g. corona that's usually confined to about 300 ft from the line and usually below 10 MHz) and finally Gap Discharges - small sparks often from unconnected pieces of metal that are at different induced potentials in the electric field). Mr. Worrell showed us a variety of detection gear including a hand held VHF Yagi, an ultrasonic listening device and a heat detection sensor. A most interesting evening was the result, and about 20 of Fauquier's hams enjoyed a most interesting exposition of a different kind of DF story.

The June meeting of FARA will be at Shadow Lawn Recreation Center, 7:30 pm June 8 1993. The subject : Field Day 1993 The organizer will be Don WY2V.

We need everyone's support, come along and join in the fun on the 8th, and on June 26/27 at the same location as last year - the field between the Superfresh shopping center and Jamesway.

Neil, AB4YK

DON'T  
FORGET  
TO  
ALLOW  
FOR  
EXTRA  
TIME  
WHEN  
YOU  
MAIL  
YOUR  
ARTICLES





## Amateur Radio Research and Development Corp. (AMRAD)

- Meetings: Second Thursday of each month, at the Fairfax County Library, McLean, VA (Talk-in AMRAD repeater)
- Repeater: WD4IWG (147.81 in/147.21 out); Jeff Brennan (WB4WLW), manager; WD4IWG is an open repeater for FM voice and digital communication, especially for experimental modes. Autopatch available to members.
- Data address: Internet address is [rmays@amrad.win.net](mailto:rmays@amrad.win.net)
- AMRAD CBBS: (703) 734-1387.
- Information: Andre Kesteloot N4ICK @ (703) 356-5519 or Terry Fox WB4JFI @ (703) 849-1189.

At the May meeting, Mr. Grey Underwood of Virginia Power presented a talk entitled "Review of the 60-Hz Electric and Magnetic Fields Issue". AMRAD continues to look for speakers to continue this series of programs on the various medical/health aspects of RF radiation. If anyone has an interest in, lead on, or capability as a speaker on the subject, please call Dave (N4JGQ) @ (703) 237-5465.

**Up-Coming Meetings:** on June 10th, Dennis Bodson (W4PWF) is scheduled to speak on New Communications Technologies (Facsimile); Rick Engelman of the FCC is scheduled to speak on Personal Communications Systems and New Communications Technologies on July 8th.

A number of the AMRAD contingent visiting Dayton attended a cookout hosted by N2FOE, chief of AMRAD operations in the southern Ohio area. Alas, none of the AMRAD people came home with the ultimate find at the hamfest; there was little of interest, but a side trip to Fair Radio Sales in Lima compensated for the poor selection of goodies at Dayton.

AMRAD 10-GHz microwave activity will probably resume in late May, with gear being assembled and tested in preparation for the ARRL 10-GHz contest in August and September. Anyone with an interest in 10-GHz is invited to contact AMRAD.

Hopefully time will allow a start on construction of narrow-band (SSB) 10-GHz equipment; the same equipment should also be useable on 3456 and 5760.

AMRAD is looking for new members, and is especially interested in new hams with an interest in technical matters.

If you have such an interest, drop by; AMRAD welcomes the infusion of new areas.

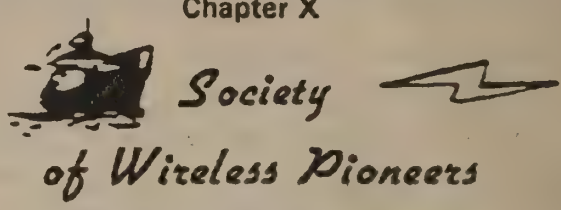
We continue to meet Saturdays at 1230 hrs. at Taco Rio Grande in Vienna; our monthly meetings (technical talks) are the 2nd Thursday of the month, at the McLean Dolly Madison Library.

All are welcome!

Talk-in on the AMRAD repeater.

(de Dave, N4JGQ)

Chapter X



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### SMARC Continued from page 39

a video on amateur radio, and gave a talk to 150 girl scouts. The scouts had set up camp for the weekend at Jug Bay Natural Resources Center and the theme was Communications.

The novice class is still moving along fine at press time. One student has already passed her novice exam ahead of the class.

SMARC will sponsor a plaque for this year's CW Sweepstakes Atlantic Division Low Power winner.

Look for SMARC on Field Day! We intend to operate W3PT from a location in southern Maryland.

73, KK4GV & N3MDS



## Moose Amateur Radio Club

Meetings: Last Saturday every month 10:00 am.  
Loyal Order of Moose lodge 562, Towson, Maryland.

Information: Tom Molyneaux, KE3GK, 760-6925 Nick Nickles, WZ3J, 668-2363 Repeater: 224.12 Mhz (-)

Address: Loyal Order of Moose, Towson Lodge 562, Amateur Radio Club, 8801 Mylander Lane, Towson, Maryland 21286

HAMfest: Sunday, 22 August 1993 at above address or Call Nick, WZ3J (listed above) for information.

On April 9, 1993 at 13:33 UTC The Moose Amateur Radio Club and School Officials at Jarrettsville Elem. School in Jarrettsville Maryland completed the first ever, Maryland SAREX contact between an Elementary school and the Space Shuttle (STS-56). Communications with the shuttle by the students of Jarrettsville Elem. School was the highlight of the School year with 9 out of 12 students asking questions about life in space and aboard the shuttle. The 3 students who did not get a chance to communicate with the shuttle were video taped asking their questions, and the video was transmitted to the Space Shuttle VIA Amateur Radio Television. A letter of plea was also sent to the shuttle asking for another orbital communications contact, which would allow 3 students a chance to communicate with the shuttle.

All of the local media was on hand during the week, providing community support along with daily TV spots coverage of their SAREX project.

The Moose Amateur Radio Club, located in Towson, Maryland provided all the Communications equipment, Antennas and training to the school allowing a perfect communications link with the Space Shuttle (STS-56). Over 1000 man hours were utilized by the staff of Jarrettsville Elem. School and the Moose Amateur Radio Club.

Gemma Hoskins, Teacher of the Year and Gerry Mack of Jarrettsville Elem. School were

the driving force promoting this project. Other teachers and parents of the school worked together to complete this project on time, along with outstanding support to all of the communications staff. As the communications cycle of the SAREX Communications project closes, the project and space education will continue throughout the year, and proceed into the next school year.

AMSAT USA, Mr. Frank Bauer provided support services for the SAREX communications team to NASA allowing daily messaging and communications services.

Tom - KE3GK

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## MADRAS

The Maryland Apple Dumpling  
Radio Amateur Society Inc.

- Meetings: 2nd and 4th Thursdays - 7:00 p.m. NBC Building, 4001 Nebraska Avenue, N.W., First Saturday - 10:00 a.m. Informal meeting at the clubhouse.
- Repeater: 444.100/449.100 MHz 145.45/144.85 MHz
- Packet: 145.55 MHz Node 44.96.0.85 BBS: (301) 258-1954
- Mailing: P.O. Box 2468, Wheaton, MD 20902
- Information: Scott Standiford, W3YTW (301) 589-9321 or BBS, Larry Zeichek, N3GKZ (301) 984-6112

### Schedule of Events

May 27 - 7:00 PM John Riser, of the FCC

June 10 - 7:00 PM Plater Campbell, the new Emergency Coordinator for the District of Columbia will speak to the club.

June 24 - This meeting will not be held as Field Day is two days away. June 25th the club will assemble at the Field Day site in Rockville to put up antennas. Consult Jean Blacik at 301- 984-6112.

The JULY meeting will be the MADRAS summer picnic.

*Continued on page 45*



## Herndon Repeater Group

- Meetings: On-the-air meetings every Monday at 9:00 p.m.
- Repeater: N4FSC/R 144.71/145.31 MHz  
Packet BBS: 145.03 MHz (BBSHRG)
- Mailing: Herndon Repeater Group, P.O. Box 5073, Herndon, VA 22070
- Training: Michael Weber-WB8RDN (703) 450-2304
- Information: Michael Rosati-N4FXP (703) 481-8380

**TECHNICAL SEMINAR:** HRG's next Technical Seminar is scheduled for Sunday afternoon May 23 from 1:30 - 4:30PM at the Eastern Loudoun Regional Library in Sterling (Cascades). The topic will be suggested Operating Procedures, Net Operation, Emergency Situations, the QSL Bureau system, Contesting, Field Day, DXpeditions and related topics and will be hosted by numerous HRG members. Nancy NK4U will be a guest speaker on the 4th area QSL Bureau. Check into the Monday evening HRG Net for more details.

**YOUTH NET:** HRG will be starting a new Youth Net on the HRG 145.31 Mhz repeater beginning Sunday May 30 at 4PM (Memorial Day weekend). The Youth Net will meet each Sunday at the same time (4PM) and will be run by the younger Hams, topics of discussion will be determined by them and so forth. Josh KD4WGY (age 13) and David KD4YIJ (age 12) are the HRG Youth Net CQ rdinators and both are very dedicated to helping other young people develop an interest in Ham Radio. For example, David has encouraged 12 fellow Boy Scouts to enroll in the fall HRG Novice/Technician training course. Listen for more details on the weekly Youth Net on the voice announcements on the HRG/N4FSC repeater. If you are a young Ham or know of one, please let them know about this new Net. Licensed parents are encouraged to assist their unlicensed son or daughter with Net check in procedures in hopes of sparking an interest in Ham Radio.

**UPGRADE CLASS:** The annual HRG General Class ended on May 8 and most of the students

took the exam (code and theory) on May 15 at the Herndon High School. Thanks to HRG Volunteer Instructors Terry AB4UM (code) and Jerry AC4JV (theory) for running the class and to Craig WA3RGH and the Trinity Presbyterian Church (Herndon) for providing the classroom space.

**EXAMS:** As stated earlier, HRG offered an ARRL/VEC Novice - Extra exam opportunity on Saturday May 15. The results will be listed in next months column. HRG's next exams session will be August 28.

**NEW MEMBERS:** HRG welcomes Ghee WL7C, Mark KD4WFY, Nick KD6ADY.

**SIMULATED EMERGENCY:** HRG conducted a simulated emergency exercise on April 4 with Ken KD4UNS and Mike N4FXP providing Net control responsibilities. In this simulation, Craig KD6CRD played a ham who was injured in an overturned car on top of a parking garage in Reston. He had 2 broken legs, serious bleeding, could not see, did not know where he was and had other injuries. Craig could make a total of 8 minutes of transmissions (simulating a weak battery) to the 24 people who were searching for him with DF equipment in the 2 hour search window or he would be presumed deceased. Lucky for Craig, he was found in only 53 minutes by Jack N4ULS and Lee N4LXI. Afterwards, 41 HRG members met at a local Herndon restaurant for dinner to discuss the days event.

**CONGRATULATIONS:** HRG congratulates club members Linda KD4WGT and on the birth of their son born March 29 who they named Corey Alexander.

73 Mike WB8RDN



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## Anne Arundel Radio Club

- **MEETINGS:** 8 PM 1st and 3rd Thursdays, Davidsonville Family Recreation Center, Queen Anne Bridge & Wayson Roads off MD Rt. 214 near Annapolis.
- **ON THE AIR:** 2030 Thursdays when there is no club meeting on 147.705/105. Tuesdays at 2030 local time on 28.410. The Chesapeake Weather & Traffic Net on 147.705/105 at 1100 and 1500 every weekend day and public holiday from April 1 to November 15. MSN (Maryland Slow Net) every evening at 1930 on 3.7170 Mhz. The Aviation Net on 147.075 1st Monday of month at 8:30 PM, The Packet Net every Wednesday at 9 PM on DCCONV Ch/13.
- **ADDRESS:** P.O. Box 308, Davidsonville, MD 21035
- **INFORMATION:** Margaret (Holly) Bevan, 301-923-0229

The last session of the 1993 Novice/Tech Class was held on April 24th, two weeks later than planned because of snow cancellations. Nineteen new hams are awaiting their licenses, with several more class members expected to test later. The majority of the group emerged as Techs (with code). Thanks to an extensive reworking by John/K8JW Williams the 147.105 Repeater is back to full capability after getting soaked during the March blizzard. So that this will not reoccur, six Club members spent an entire Sunday putting a new roof on the repeater shelter on the radar platform at the foot of the tower. They hauled the pieces of the new roof up to the shelter, trimmed the old roof to serve as a ceiling and built a solid, peaked roof that will serve the Club well for many years.

The AARC sadly reports that another member who played a prominent role in the history of the Club has become a silent key. Retired Navy Lt.Cmdr. Charles Richard (Dick) Jessup/N3FN died on April 9th of respiratory arrest after a short illness. He was a decorated veteran of World War II and a survivor of the Japanese attack on Pearl Harbor. Dick served as Club president during 1978 and again in 1982. He designed the Club logo. He was the Club Trustee for many years, ably

chaired many committees and served as the FAR Rep. Nineteen AARC members turned out early on March 25th to communicate for officials of the March-of-Dimes Walk-a-Thon in Annapolis. They were highly praised for their efforts by the official in charge.

The AARC Team of Volunteer Examiners was kept busy in April. In addition to the regular testing session at the AARC Clubhouse on April 10th, Technician Tests were given on the 10th and the 24th to members of the Novice/Tech Class. Team workers included Nancy/NT3Z, Bob/WC3I, Oscar/NV3G, Herman/WK3P, Lois/KA3VVQ, Charlie/W3RMD, Ric/KK4GV, Bob/N3MNT, Bettye/K3VRZ and Holly/N3BMB.

Congratulations to Bob Baltz/N3MNT who upgraded to Extra; Jeffrey Smith/N30KY, Bill Izzo/N3HXO, and John Forrest/N3NPJ who are now Advanced; Anna Walter/N3JYU, Randy Berry/N3LRX and Dan Lazer/N3HNA who have obtained General and Gus Hernandez/N3KTM who is a Tech (with code). Dick McKelvie changed his call from N3MNG to KE3HQ.

73, Holly/N3BMB

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### MADRAS - Continued from page 43

These programs are being given as part of our regular meetings held in the WKYS-FM Conference room in the NBC Building at 4001 Nebraska Avenue, NW.

Two people have donated the equipment needed to activate an autopatch on the 440 repeater. This should be up and running soon.

Hani Raad, N3IWM is now AA3EI having passed his extra exam. What a great CW call !

Jean Blacik passed her technician exam. Jean worked very hard to get there. Congratulations Jean !

We need Phone and CW operators for Field Day. If you are interested in operating with the club this year, come to a meeting or call me at We will again be mounting an aggressive effort this year.

Scott Standiford, W3YTW



## "Ole Virginia Hams" Amateur Radio Club

- Meetings: Third Monday of each month, 8:00 p.m., Northern Virginia Coop Building, 10323 Lomond Drive, Manassas, Virginia
- Repeaters: Voice: WA4FPM 146.97 and 224.66, Packet Node: 145.030 and 223.540 (OVH), Packet BBS: 145.030 (BBSHRG)
- Net: Each Thursday, 8:00 p.m., 146.97 and 224.66
- Information: Harry Vorhauer-W4PVA 703-368-6050, Steve Frick-N4OGR 703-361-0008
- Mail Address: Ole Virginia Hams ARC, PO Box 1255, Manassas, VA 22110

### HAMFEST

As you know, the Ole Va. Hams annual Hamfest will occur in just a few days on June 6 1993. Our able-bodied hamfest committee led by Dan KC4EWT, is ready and you'll notice a few changes this year. Handicapped parking has always been available but this year it will be clearly marked and reserved for those needing it. Also this year you'll see roving OVH members throughout the day wearing bright colored OVH ball caps to answer your questions, guide you in the right direction, and generally ensure the safety and enjoyment of all. Vehicle movement within the fairgrounds during the hamfest hours will be limited and will be handled on a case by case basis. Realizing that some tailgaters will want to leave early, all tailgaters will be directed to depart via the rear gates only. This is to ensure the safety and enjoyment of all and your cooperation will be appreciated. For general hamfest info call Dan-KC4EWT at 703-709-0847; for commercial exhibitor info call Woody-KD4DEG at 707-368-5180. As usual there will be a drawing held for door prizes. You won't want to miss your chance at this year's Grand prize, a Kenwood TS-50 compact HF radio.

### HARMONICS

Congratulations to Matt-KC4ZPM and Jean on the birth of Steven Lewis Clarke at 4:22pm on May 4th! Mom, Dad and baby are reported to be doing fine!

### TRAINING/VEC TESTING SESSION

The OVH No-code Technician class that began on April 6th is being presented by Randy-KA4UFF and Chuck-WA1FFX with an assist from Harry-W4PVA. The class will finish in time for the OVH VEC testing session on June 12. The VEC session will take place at Northern Virginia Community College Manassas campus Room MS002 at 9:00AM. All are welcome but pre-registration is requested. Call Harry-W4PVA at 703-368-6050.

### FIELD DAY

The Ole Va. Hams Field day will again be held at James F. Long Park on Rte 15. All are welcome to attend and any questions you may have can be directed to our Field day committee chairperson Bonnie-N4QPB at 703-361-0008.

### PUBLIC SERVICE

Joe AB4QV and Harry-W4PVA took part in a SAREX-Packet demonstration at Arcola Elementary School on April 29th. Chuck-N4OSD and Vikki-KA3PVS of the Goddard Amateur Radio Club came to speak at the school and demonstrate SAREX capabilities. The shuttle was heard talking to a school in Texas and later with a school in France. The group also listened to WA3NAN's rebroadcast of shuttle transmissions and the STS-55 space shuttle was monitored and heard on packet as well. As an added bonus Chuck arranged to have Astronaut Ron Parise-WA4SIR of the Goddard Spaceflight Center available to answer the students questions on 2 meters. Ron was in Maryland using a mobile and talked to the students via the Tyson's Corner repeater. Thanks to Chuck, Vikki, and the GARC for making this demonstration possible.

### MINUTES

The OVH monthly meeting minutes are available on packet for all those interested. They are supplied by club Secretary Ron-NV3S and can be found on the club bulletin board BBSHRG, run by Bill-N4WJN.

*Continued on page 47*



## Metropolitan Communications Network

Representing Six Meters in the Greater National Capital Area

- Meetings: Quarterly, on the second Sunday of the month. Time and place to be announced.
- Repeater: N3AGB/R, 52.250 MHz in; 53.250 MHz out. Accessible on 147.36 MHz and 444.35
- On-the-air: Saturdays at 1900 hours EDT
- Mailing: Bob Sporn-WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903
- Information: Bob Sporn-WA3GGO (301) 434-1719

About the middle of April, Bob Curry, KC3VO stopped for a red light on Kansas Avenue in the District, about ten feet behind the vehicle in front of him. A vehicle behind him, did not even slow down, and hit Bob's six cylinder Honda motorcycle, pitching him clear through the rear window of the vehicle in front of him. Bob landed with his head in the driver's side and feet in the passenger side. Bob was immediately taken to the hospital. Miraculously, he survived, and at this writing we have no further information as to the extent of his injuries. The motorcycle with its various radios was wrecked. We wish him a speedy recovery.

### THE SUNDAY MORNING COFFEE NET (50.4 MHz) AT 9:00 HOURS LOCAL TIME

Although busy with spring maintenance on his boat, Joe Saunders K3UAL, manages to check in regularly, albiet he is also active in the Coast Guard Auxillary. Stanley Brigham, W3TFA who takes the Net, in our absence, recently worked china, Japan on fifteen meters CW and \$NJ in Mecedonia.

### MARYLAND FREESTATE SIX METER SIDEBAND NET (50.125 MHz) AT 20:00 HOURS LOCAL TIME

This net could use some more participation. Because of the time change, we have been on at 7:00 p.m. and at 8:00 p.m. Join us!

73, Bob - WA3GGO

## Green Mountain Repeater Association, Inc.

- Meetings: Board of Directors/Control Operators, Last Monday each month.
- Luncheon: First Saturday each month, 11:30 a.m. at Fountain Cafe, Laurel Shopping Center Mall, U.S. Rt 1 (Baltimore Avenue) and Cherry Lane.
- Repeaters: KD3VR - 146.61 (Cheverly) and K3GXF - 146.88 (Greenbelt)
- Mailing: GMRA, P.O. Box 429, Riverdale, Maryland 20737
- Information: Boyd Nelson-KZ3Z (301) 434-0934

GMRA held it's monthly Board of Director's meeting on Thursday April 29, and had to pick a new 2nd Vice President to replace Carey David, N3GYB who had been transferred to Florida. The members would like to wish Carey the best in his new QTH and thank him for serving GMRA. Carey will be greatly missed by all.

The new 2nd Vice President is John Williams, N5SJZ of Bowie, MD. John is an enthusiastic and very active member of GMRA. Perhaps you may

*Continued on page 48*

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### Ole VA Hams - Continued from page 46

#### THANKS

Although I have only been a ham and been familiar with Autocall since Feb 1992 I quickly noticed the effort that must go into the Autocall pages. This became especially apparent to me when OVH designated me as our clubs Autocall correspondent in October 1992. From the first time I called outgoing Autocall editor Ethel-K4LMB to introduce myself untill the last column submission last month she has been helpful to me, answered my questions, made suggestions, and been fun to work with. Ethels work with Autocall has obviously been outstanding as we all can see in its pages. We have never met face-to-face, only by telephone and modem, but I can tell you that through her work, she epitomizes what is meant by the word Elmer. I know that I speak for the entire Ole. Virginia Hams membership by thanking you Ethel for having done what you love, and for having done it so well!

Alan-KD4KBX



## GMRA - Continued from page 47

have read about John and his antenna expertise, recently, in the April issue of 73 Magazine. John was pictured on the front page with an article on page 18. John and Joe, KD3VR have constructed 10 and 20 meter "X" beams. Tony, WA3YLO can vouch for the good results on the 20 meter beam.

The 146.88 repeater, recently, was having some periodic drop-out problems. Thanks to KD3VR - Joe, K3GXF - C.T., W3HFA - Paul and N5SJZ - John who helped to renew the exciter-driver circuitry by replacing new capacitors and resistors. All of us really appreciate your time and work.

Congratulations are in order for one of our "Founding Fathers" and the first President of the

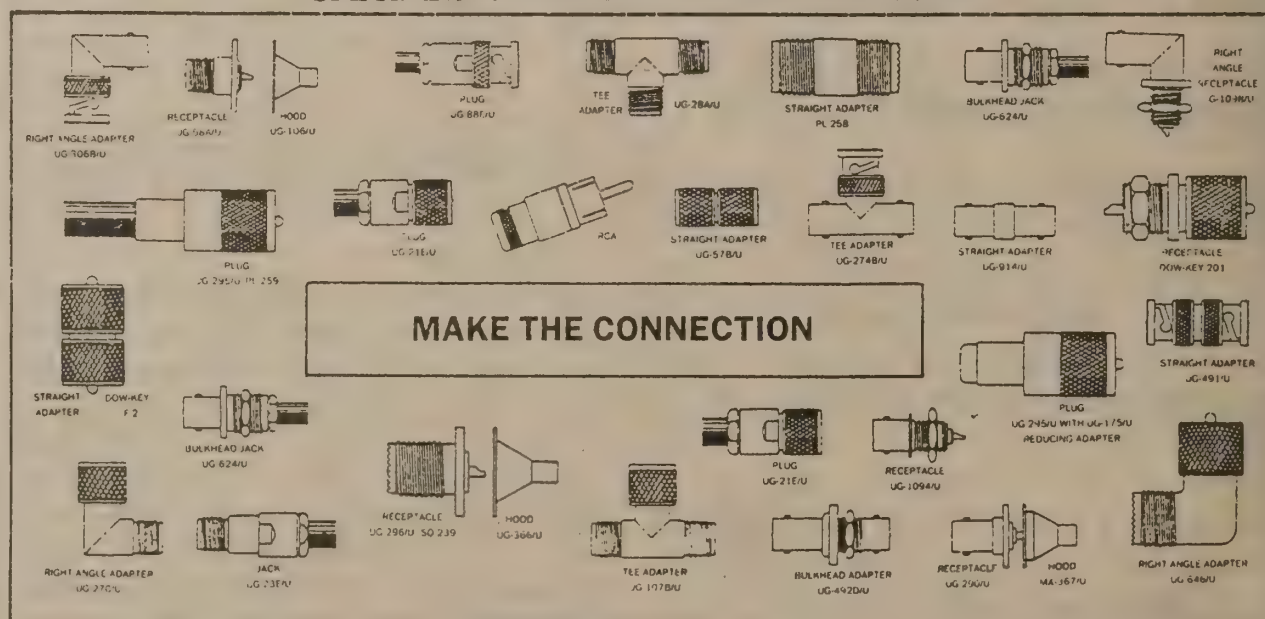
Green Mountain Repeater Association. That distinction goes to none other than K3BEQ, Murry Green (hence-"Green Mountain"). Murry, after years decided to upgrade to the Zenith of Amateur Radio, Extra Class. He passed the Advanced and Extra within two weeks in April. This couldn't of happened to a better guy. I, for one, am happy to know Murry.

GMRA would like to announce that it is in the "Summer Recruiting Drive" mode. If every member could sponsor just one new member. Boy! look what a group we could have. Please, everyone consider this and do your best. We are counting on you. Don't forget the 1st Saturday of the month lunch meeting in the Laurel Shopping Mall.

73's, Ken Easton-N3HLY

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Estate sales for Widows Assistance handled by a FAR club will be published without cost.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be applied.

Copy must be received by the 5th of the month preceding publication.

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Estate of R. E. Bailey - WB1FQR

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Call - Mrs Robert Bailey (301) 598-5394

**FOR SALE: KENWOOD TS-440S** AT Transceiver with automatic tuner, Hand Held Mike, YK-88 500Hz CW Filter, Manual, Original packing, Very Clean. \$900  
Nick DeCarlo - N2OAO, (301) 972-8641, Gaithersburg, MD

**WANTED:** Rohn 45G or any larger commercial guyed or self-supporting tower. I will take down and remove. Contact Dave - N3EJT (301) 474-7405, College Park, MD

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**DRAKE TR-4C** HF Transceiver, Speaker and Power Supply. Recently overhauled by Tech. Equipment in Good Condition. \$400

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New **TEN-TEC** Closet Kilowatt Power Supply Model 9420. Box, Manuals and Warranty Card. \$650

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Please Contact Gil - N4QAS, Skypoint Ham Shack, Herndon, VA 437- 1559, 787-5750 evenings. Vienna, VA 281-1510 days.



# SHACK SALES

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## REMEMBER THE BRATS

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Maryland 21208 or call

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**BRATS HAMFEST LINE:(410) 583-9147**

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**WANTED:** Yeasu FT-101 station accessories-  
QRT-24 World Clock, YD-844 Microphone, YC-  
601 Digital Display, YP-150 Dummy Load/Watt  
Meter, FA-9 Colling Fan, Manuals, etc. Call Al  
Rabassa - NW2M (301) 294-8621 anytime, Rock-  
ville, MD

## DISCOUNT PRICES AT RT ELECTRONICS

10/11 Meter radios, Antennas, Scanners, Power  
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FLYER. P.O. Box 2123 Warren, OH 44484 Phone  
(216) 369-1789 (8 a.m. - 4 p.m. EST) FAX (216)  
847-0614 Anytime.

**NORM'S ROTOR SERVICE**  
Rebuilt Rotors, Parts & Service Call  
Norm Jeweler - K3LYW  
Frederick, MD 21701  
(301) 874-5885

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## NEED ANTENNA OR TOWER WORK DONE?

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**HAM RADIO HEAVEN.....\$318,000**

High Ridge Top Home with 360Deg.  
panoramic views. No antenna restrictions. 5.5  
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Radio operator, Astronomy Buff, or Bird watcher.  
Owners willing to consider other properties as  
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100 \$14.00 - Shipping FREE  
Send SASE for Samples  
K3UAL Print, 1520 Jutewood Avenue  
Hyattsville, MD 20785  
Phone (301) 773-9383 or 773-5074

**WANTED:** DG-5 Digital Readout TV506 - 6  
meter Transverter. Both items to be used with  
Kenwood TS-520S. John Elliott, N3NCJ (410)  
263-2514, 1000 Jackson Street, Annapolis, MD  
21403

**WANTED TO BUY:** Collins KWM-1  
Transceiver with AC supply preferred. Collins S-  
Line cabinet. Unique Wire Tuner. Quote on Col-  
lins KWM-2 or 2A. NCX-3 Power Supply. Also  
Need NCX-3 Manual. Levy W5QJT, 115 N.W.  
Loop 410, Apt. 24B, San Antonio, TX 78216

**WANTED:** For ATV Video Camera (without  
taping capability) or a camcorder. Also older  
cameras, especially Leica and the unusual. Also  
collect old fountain pens. Gerald Rose - KB4QGJ,  
Phone (703) 370-1880, 524 N. Quaker Lane,  
Alexandria, VA 22304-1827

**FOR SALE:** TR-7950, Kenwood 50 watt 2-  
meter Transciever. Works fine, needs bracket and  
power cord. \$100 Bob K3HF (301) 984-1051, Ger-  
mantown, Maryland

**FOR SALE:** Motorola Radius P-10's, Matched  
set of 4 with chargers, manuals and 2 spare bat-  
teries, VHF blue dot frequency. \$300 Bob K3HF  
(301) 984-1051, Germantown, Maryland

**FOR SALE:** IC-2B2, Icom commercial hand-  
held 140-150 MHz simplex. \$100 Bob K3HF (301)  
984-1051, Germantown, Maryland

**FOR SALE:** Kenwood TS-440S with Automatic  
Tuner and MC-50 Desk Mic. \$828 Yaesu FT-  
767GX. \$1,050 Roy Wiglesworth - KO4LM,  
Frederick, VA (703) 898-0604



## SHACK SALES

**WANTED HAM EQUIPMENT AND OTHER PROPERTY:** The Radio Club of Junior High School 22 NYC, Inc. is not only the Big Apple's largest Ham club but also the nation's only full-time non-profit, IRS approved 501(c)(3) organization working to get Ham Radio into schools around the country as a theme for teaching, using our EDUCOM - Education Thru communications - program. Send your radio to school. Your donated Amateur or related equipment, means a tax deduction to the full extent of the law for you, as we are an IRS 501(c)(3) charity in our thirteenth year of service. Your help will also mean a whole new world of educational opportunity for children around the country. Radios you can write off, kids you can't. Please write-phone-FAX the WB2JKJ "22 Crew" today: The RC of JHS 22, POB 1052, New York, NY 10002. Telephone (516) 674-4072 and FAX (516) 674-9600. Young people, nationwide, can get high on Ham Radio with your help. Meet us on WB2JKJ CLASSROOM NET: 7,238 MHz 1100-1230 UTC and 21.395 MHz 1300-1900 daily, also at the Knoxville, TN hamfest on June 5.

**WORLD RADIO**, Amateur Radio's monthly newspaper can be delivered to your doorstep for only \$14 per year (\$24 overseas). Get the latest on how your fellow amateurs use their hobby to help others. Regular features are Contest and Hamfest announcements, Aerials, Amateur Satellites, Continuous Wave, Digital Bus, DX World, Search & Rescue Communications, FCC Highlights, Mobile, New Products, Propagation, QCWA, QRP, Station Appearance, Traffic, VE Exams, International News. Send your subscriptions to **WORLD RADIO**, 520 Calvados Avenue, Sacramento, CA 95815

**The AMATEUR RADIO NEWS SERVICE** is an organization of publishers and editors of Amateur Radio newsletters and members engaged in public relations. Its purpose is to assist editors in any way possible. For more information, write to Lee Knirko - W9MOL, Amateur Radio News Service, 833 Park Plaine, Parke Ridge, IL 60067

**Mid-Atlantic Antique Radio Club.** Become a part of one of the country's fastest growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors' restorers and historians. For a sample newsletter, write to Joe Koester at 249 Spring Gap South, Laurel, MD 20707 Phone (301) 725-4229

### Call JWO SERVICES DISCOUNTS ON ALL!

ARRL, AMECO, CALLBOOK, Code Keys, 1993 Callbooks (Flying Horse), International or North American (\$29.95) Only \$23.95 each.

New Edition! Now Your Talking (\$19) \$17.30, 10-up \$16.25 New!

1993-1994 ARRL Repeater Directory (\$6.00) 1-9 \$5.50; 10-up \$5.15.

Only \$.30 handling per order & shipping.

New 1993 free catalog of savings!

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Worldwide Shipments Mastercard/Visa

12 Hickory Place Camp Hill, PA 17011

Phone (717) 731-4747 FAX: (717) 730-9373

Daily to 10:00 p.m. and weekend afternoons

**WANTED:** Citizens Radio Callbook Magazine for 1920-1921-1922-1923. Citizens Radio Amateur Callbook Magazine (Flying Horse Cover) for 1924-1925-1926. Department of Commerce Radio Amateur Callbook for 1922-1923-1924. Department of Commerce Radio Stations of the U.S. for 1913 plus supplements, 1914-1915-1916. 1909-1910-1911-1914 List of Wireless Telegraph Stations, included U.S. Amateur Stations - was called "Wireless Blue Book". Bob Arrowsmith, PO Box 166, Annandale, VA 22003 or Collect (703) 560-7161

**FOR SALE:** Lifetime collection of wonderful Junk. Mini Quad, Transmatch, Ant. Tuner, HiFi Speakers, Caps, Resistors, Rotators, Meters, Equipment Rack, Quad Boom & Spiders, Instruments, Paddles, Keyers, and Computer accessories. All at "Get It Out Of Here" Prices. Phone Bob-W3AV at (301) 933-7447, Wheaton, MD.



## SHACK SALES

**FOR SALE:** 4BR, 2 1/2 bath colonial in Laurel, Montpelier, Maryland. 25 minutes from Capitol, 10 minutes from NSA. Over 2/3 acre, half wooded; birds, rabbits, squirrels. Large rooms, quiet street, private. New heat, a/c, water heater. Large master bedroom suite. Immaculate condition. Non-smoking, no pets, no children. All appliances. Rohn HBX32 tower, Ham-IV rotator, Explorer 14 antenna optional. Original owner retiring. On hill with fantastic propagation to Europe, Africa and South America, good to Asia. Call W3EVD at (301) 776-5683 Asking \$199,500

**FOR SALE:** HF Transceiver, 6-30 MHz continuous, All SWL Bands, TEN-TEC PARAGON with all Filters & Acc., RS-232 and Power Supply. \$1,500 Mark-WX3H (703) 560-0673, Vienna, VA

**MOVING SALE:** Radio Equipment Must Go. Parts galore, resistors, capacitors, transistors, diodes, tubes, Howard Sams folders, cabinets, computer books and much more. Also refer to my other ads in Auto-Call. Phone Les - WA3NGF, (301) 864-3892, Riverdale, MD

**FOR SALE:** Repeater, 300 watt GE Master Pro. All GE factory parts (cards, audio cos) will tune to your frequencies, Very Clean Equipment. \$1,000

GE Mobile Units, Master Pro and Master II complete, Realistic CW and SSB Ten Meter Mobile unit. \$100

GE Master Pro 100 watt 6 meter base station (3) with Channel Guard on 52.525 with DC Remotes. \$250 each, Will Trade, Call Warren - WB4DRI (703) 594-3328, Nokesville, VA

**WANTED:** Manual or Schematic for Systron-Donner counter heterodyne plug-in model 1292A. Trying to repair same, any information greatly appreciated. Phone (301) 916-9182 or write to: Henrik Johansen, P.O. Box 7281, Gaithersburg, MD 20898-7281

**FOR SALE:** Johnson Viking Valiant \$150 Hammarlund HQ-129-X \$150 or both with manuals \$275 Used in Classic Radio Exchange. You Pick Up. Call Lee Apple - W3EE (410) 828-7884, Towson, MD

**FOR SALE:** VIKING II and 122 VFO, factory wired, good electrical condition, new finals, 3 conductor line cord. RADIOLA 28, mixed wood console with caned back, all tubes and spares, loop antenna, power supply, audio amplifier and speaker. RCA 1960's, 5" B&W portable TV, works, with SAMS photofact. Call (703) 406-9629 leave message.

**FOR SALE:** DRAKE TR-4 TRANSCEIVER with MS-4 Speaker/Power Supply \$150. TRIPLETT Model 630 VOM with Leather Case, Same As New \$75. HEATHKIT SCOPE Model IO-17, Nice \$60. ANTENNAS: Eight Element 2 meter Beam, Twelve Element 2 meter Beam, Three Element-Three Band (10,15,20) Beam, Twelve Element Four Fourty Beam, Two Long Wire Trap Antennas, 2 meter J-Pole, Welded Aluminum. I will have these items at the Frederick Hamfest on June 20. Call Bernie, W3CAO at (301) 271-2714 evenings, Thurmont, MD

WORLDWIDE DISTRIBUTION



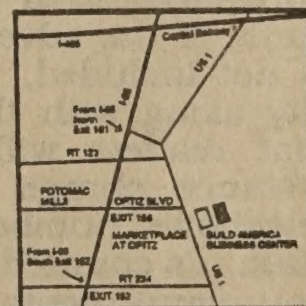
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# AUTO-CALL POLICY

## PRODUCTION POLICY

Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. All hard copy is reformatted to preserve uniformity of style in the magazine. We use Word Perfect 5.1 for Windows for word processing, Ventura Publisher for page layout and CorelDRAW 3.0 - CD-ROM for Graphic Design. We also use a Full Page Scanner with WordScan OCR to scan text and graphic's directly into Ventura Publisher. Photo Styler is used to enhance and halftone images. We will accept 5.25" or 3.5" MS-DOS diskettes is ASCII format. Type all headers, bylines and body text flush left with no margins. Single space after periods, do not indent paragraphs and double space to begin new paragraph. If you have any questions please feel free to contact: Doug Allen - (410) 437-6258.

In determining space requirements, figure about 700 words per page (50 lines at 12 words per line) - not including the space taken up by headings, photographs, etc. Either black and white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio, (Copy space is 7" wide by 9" high). Copy can be reduced or enlarged as necessary.

## SHACK SALES

Deadline for copy is the 5th of the month preceding the publication date. Shack sales will NOT be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the full name of the advertiser. If the full address is not included, we prefer to include the city along with the telephone number so that readers will know whether a long distance charge is involved. The entire telephone number - including city and state - is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as one word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, please phone the Auto-Call editor at (410) 437-6258, Pasadena, MD.

## ADVERTISING

### SHACK SALES

Non-commercial advertising of Amateur associated equipment is available to subscribers of Auto-Call at 3¢ per word - with a \$1.00 minimum. Commercial vendors and non-subscribers rate is 17¢ per word - with a \$5.50 minimum.

Special headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - \$1.00 per column inch for non-commercial ads, \$5.50 per inch for commercial vendors and nonsubscribers

Commercial vendors should include the ad size and length of run (e.g., 1 year, 6 times, etc.) on company letterhead and it must be signed by the person authorizing payment for the ad. Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

### DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the shack sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charged according to size and duration of run as shown below. All advertising must be prepaid for at least the current month.

Rates per Issue					
Page	Col.inch	1 Year	6 Times	3 Times	1 Time
Full	18	\$75.00	\$90.00	\$100.00	\$105.00
1/2	9	55.00	65.00	71.00	75.00
1/3	6	40.00	48.00	51.00	54.00
1/4	4½	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
1/8	2¼	17.00	20.00	22.00	23.00
1/9	2	16.00	19.00	21.00	22.00
1/18	1	8.50	10.00	11.00	11.50

Based on camera-ready copy

Extra charge for halftoning photos  
and for in-house artwork and layout.

Copy must be received by the 5th of the month  
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(e.g., Copy for November issue must be received by 5th October)

**All Advertising Must be Pre-paid**





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AUTO-CALL

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Hugh Turnbull, W3ABC  
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Phone: (301) 927-1797

Roanoke Division Director  
John Kanode, N4MM  
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## AUTO-CALL Magazine

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**Make check payable to the Foundation For Amateur Radio**



# JUNE 1993

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 (1st Working) Antietam IBM PG Wireless	2 BARC MARC	3 Anne Arundel Summit Voice America	4 Mobilecom SEES Shenandoah	5 Green Mountain Stafford
	6	7 (1st Working) Adams County Dept. of State	8 Fauquier Frederick ARC Leisure World Woodbridge	9 ***FAR*** Pentagon S. Patuxent	10 AMRAD MADRAS Mt. Vernon N. Virginia QCWA #150	11 Alexandria S. Maryland Vienna
	12	13 3/6/9/12 MetroCom	14 (PVRC) (9 thru 5) 6/7/8 vary Carroll County	15 (BRATS) 4/6/8/10/12 Antietam Arlington	16 (QCWA #137) 1/3/5/7/9/11 BARC Goddard MARC	17 Anne Arundel QCWA #20
	18	19 Capitol City Stafford	20	21 Culpeper Ole VA Hams Sterling Park	22 Columbia	23 Laurel
	24 MADRAS St. Marys	25 Central Maryland Vienna	26 (Last) Moose Stafford	27 (Adventists Last)	28	29 Columbia
			30 (QCWA #20) Last	<div> <div> May S M T W T F S 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 </div> <div> July S M T W T F S 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 </div> </div>		

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